

**SAN DIEGO COUNTY
SHERIFF'S DEPARTMENT**

**Assembly Bill 481- Annual Military
Equipment Report 2022**



San Diego County Sheriff's Department

AB 481- Annual Military Equipment Report 2022

This document has been created in accordance with California Assembly Bill 481 (AB 481), codified in California Government Code sections 7070-7075.

The equipment identified in this document is stored and or used at Sheriff's Emergency Services, Sheriff's Weapons Training Unit and San Diego County Sheriff's Department operated facilities listed below.

Law Enforcement Services Bureau - Patrol Stations

Imperial Beach	Lemon Grove	Rancho San Diego	Santee	Alpine
Poway	North Coastal	San Marcos	Vista	Fallbrook
Valley Center	Julian	Borrego Springs	Ranchita	Pine Valley
Campo	4S Ranch	Lakeside		

Detention Services Bureau Facilities

George Bailey Detention Facility	East Mesa Re-entry Facility
Rock Mountain	Las Colinas Women's Re-entry Facility
Vista Detention Facility	San Diego Central Jail
South Bay Detention Facility	

Court Services Bureau

Chula Vista Court	El Cajon Court	Juvenile Court	Kearny Mesa Court
San Diego Court	Vista Court		

A Deputy Sheriff in patrol, the courthouse or in a detentions setting may be equipped or have access to an irritant filled launcher (Pepperball), 40 mm launcher and/or less lethal bean bag shot gun.

Law Enforcement, Detentions/Courts Deputies and Search and Rescue volunteers are authorized to operate the Unmanned Aerial Systems (UAS) after completing mandatory training.

The remaining listed equipment, apart from items mentioned above listed in this document is primarily used by the Sheriff's Special Enforcement Detail (SED) during a critical incident or tactical operation. These incidents are mission based and may only call for some of the items to be used. Our goal is to resolve these incidents in a manner that will best safeguard the public's welfare, safety, civil rights, and civil liberties. The attempt to resolve each incident without using force or using as minimal force as possible is our primary goal.

A tactical operation or critical incident may be considered as, but not limited to the following:

High Risk Warrant Service	Dignitary Protection	Overwatch	Civil Unrest
Barricaded Subject(s)	Hostage Situation	Active Shooter	

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It is the policy of the San Diego Sheriff's Department to ensure we provide adequate public safety services in a transparent manner, including the purchase and use of military equipment. Decisions regarding the use, procurement and funding of military equipment should take into consideration the public's welfare, safety, civil rights and allow for public input.

The Department shall make the following considerations before seeking authorization for purchasing military equipment:

- The equipment is necessary because there is no reasonable alternative that could provide the same objective of deputy and civilian safety.
- The equipment is reasonably cost effective compared to alternatives that can achieve the same objectives of deputy and civilian safety.

The procurement or use of any new type of military equipment, not already in possession of the Department, or approved on the current Military Equipment Policy, will require the approval of the County Board of Supervisors as outlined in Section 7071(a)(1)(A) - 7071(a)(1)(G). These procedures are also outlined in Sheriff's Policy and Procedure Section 6.4.

San Diego Sheriff's Department Policy and Procedure Section 6.4 Military Use Equipment may be referred to for additional information regarding:

- The definition and types of military equipment as defined in California Government Code section 7070(c)(1) - (16).
- The approval process for the purchase of any additional military equipment.
- The requirements for the annual review of the Military Equipment Report as defined by California Government Code Section 7071(e).

The San Diego Sheriff's Department is subject to independent oversight by the San Diego County Grand Jury, as well as the San Diego County Citizen's Law Enforcement Review Board. Additionally, the actions of peace officers may be subject to review for violations of California law by the San Diego County District Attorney's office, and the California State Attorney General's Office. Additionally, the U.S. Attorney has the ability to investigate and prosecute for violations of federal civil rights laws under color of authority.

Violations of the Military Equipment Use Policy by members of the Sheriff's Department may result in sanctions including suspension or termination.

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1.0 UNMANNED AERIAL SYSTEM (UAS) INTERIOR DRONE AND ROBOTS

1.1 Unmanned Aerial System (UAS)

Autel Robotics Evo II Dual	
Description	Commercial UAS
Quantity	14
Capability	Fly, Hover, broadcast video, record video, Photography, FLIR
Life Span	UAS devices need to be upgraded as software becomes obsolete by vendors. Our current fleet will be upgraded this year.
Manufacturer's Desc	Commercial grade UAV equipped with thermal imaging camera. Records 8k video and has 38 min. flight time.
Purpose	Provide Aerial Support for L.E. operations
Authorized Usage	Investigative Used by the Special Enforcement Detail, Patrol, Search and Rescue to locate persons.
Costs	Initial Cost: \$8,798.24 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2019-2021 How was it Bought: Sheriff's Department funds
Required Training	15-hour Ground school, Remote Pilot Cert., 30-hour UAS Academy
Authority for Authorized Use	Certificate of Authority issued by FAA #711-1 UAS COA FAA Part 107 holder and completion of Department Training Sheriff's P&P section 6.135

DJI Phantom 4	
Description	Commercial UAS
Quantity	1
Capability	Fly, Hover, broadcast video, record video, Photography
Life Span	UAS devices need to be upgraded as software becomes obsolete by vendors. Our current fleet will be upgraded this year.
Manufacturer's Desc	Commercial grade UAS equipped with UHD capable camera. Has live stream capability and 28 min. flight time.
Purpose	Provide Aerial Support for L.E. operations
Authorized Usage	Investigative Used by the Special Enforcement Detail, Patrol, Search and Rescue to locate persons.
Costs	Initial Cost: \$1,399.00 Re-Occurring Costs: \$0

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	Maintenance Costs: As needed Year Obtained: 2018 How was it Bought: Sheriff's Department funds
Required Training	15-hour Ground school, Remote Pilot Cert., 30-hour UAS Academy
Authority for Authorized Use	Certificate of Authority issued by FAA #711-1 UAS COA Sheriff's P&P section 6.135 FAA Part 107 holder and completion of Department Training

DJI Mavic Enterprise 2	
Description	Commercial UAS
Quantity	3
Capability	Fly, Hover, broadcast video, record video, Photography, FLIR
Life Span	UAS devices need to be upgraded as software becomes obsolete by vendors. Our current fleet will be upgraded this year.
Manufacturer's Desc	Commercial grade UAS equipped with integrated thermal camera. Has adjustable parameters and multiple display modes.
Purpose	Provide Aerial Support for L.E. operations
Authorized Usage	Investigative Used by the Special Enforcement Detail, Patrol, Search and Rescue to locate persons.
Costs	Initial Cost: \$2,496.00 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2018 How was it Bought: Sheriff's Department funds
Required Training	15-hour Ground school, Remote Pilot Cert., 30-hour UAS Academy
Authority for Authorized Use	Certificate of Authority issued by FAA #711-1 UAS COA Sheriff's P&P section 6.135 FAA Part 107 holder and completion of Department Training

DJI Mavic Pro	
Description	Commercial UAS
Quantity	5
Capability	Fly, Hover, broadcast video, record video, Photography
Life Span	UAS devices need to be upgraded as software becomes obsolete by vendors. Our current fleet will be upgraded this year.
Manufacturer's Desc	Commercial grade UAS equipped with 4k capable camera. Multi Still Photography modes and 27 min. max flight time.
Purpose	Provide Aerial Support for L.E. operations
Authorized Usage	Investigative Used by the Special Enforcement Detail, Patrol, Search and Rescue to

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	locate persons.
Costs	Initial Cost: \$999.99 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2018 How was it Bought: Sheriff's Department funds
Required Training	15-hour Ground school, Remote Pilot Cert., 30-hour UAS Academy
Authority for Authorized Use	Certificate of Authority issued by FAA #711-1 UAS COA Sheriff's P&P section 6.135 FAA Part 107 holder and completion of Department Training

DJI Spark	
Description	Commercial UAS
Quantity	1
Capability	Fly, Hover, broadcast video, record video, Photography
Life Span	UAS devices need to be upgraded as software becomes obsolete by vendors. Our current fleet will be upgraded this year.
Manufacturer's Desc	Commercial grade UAS equipped with FHD capable camera. Has a 300g take-off weight and 16-minute flight time.
Purpose	Provide Aerial Support for L.E. operations
Authorized Usage	Investigative Used by the Special Enforcement Detail, Patrol, Search and Rescue to locate persons.
Costs	Initial Cost: \$399.99 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2018 How was it Bought: Sheriff's Department funds
Required Training	15-hour Ground school, Remote Pilot Cert., 30-hour UAS Academy
Authority for Authorized Use	Certificate of Authority issued by FAA #711-1 UAS COA Sheriff's P&P section 6.135 FAA Part 107 holder and completion of Department Training

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DJI Mavic 2 Enterprise Advance	
Description	Commercial UAS
Quantity	2
Capability	Fly, Hover, broadcast video, record video, Photography, FLIR and RTK compatible
Life Span	UAS devices need to be upgraded as software becomes obsolete by vendors. Our current fleet will be upgraded this year.
Manufacturer's Desc	Commercial Grade UAS equipped with a high-definition thermal imaging camera. Has 10km Transmission range and 31 min. flight time.
Purpose	Provide Aerial Support for L.E. operations
Authorized Usage	Investigative Used by the Special Enforcement Detail, Patrol, Search and Rescue to locate persons.
Costs	Initial Cost: \$0 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2021 How was it Bought: Donation by Honorary Deputy Sheriff Association (HDSA)
Required Training	15-hour Ground school, Remote Pilot Cert., 30-hour UAS Academy
Authority for Authorized Use	Certificate of Authority issued by FAA #711-1 UAS COA Sheriff's P&P section 6.135 FAA Part 107 holder and completion of Department Training

Autel Robotics Evo	
Description	Commercial UAS
Quantity	1
Capability	Fly, Hover, broadcast video, record video, Photography
Life Span	UAS devices need to be upgraded as software becomes obsolete by vendors. Our current fleet will be upgraded this year.
Manufacturer's Desc	Commercial Grade UAS equipped with a 3-axis stabilized gimbal with 4k capability at 60 FPS and max flight time of 30 minutes.
Purpose	Provide Aerial Support for L.E. operations
Authorized Usage	Investigative Used by the Special Enforcement Detail, Patrol, Search and Rescue to locate persons.
Costs	Initial Cost: \$1,199.00 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2019 How was it Bought: Sheriff's Department funds
Required Training	15-hour Ground school, Remote Pilot Cert., 30-hour UAS Academy
Authority for	Certificate of Authority issued by FAA #711-1 UAS COA

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Authorized Use	Sheriff's P&P section 6.135 FAA Part 107 holder and completion of Department Training
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Autel Robotics Evo II 8k	
Description	Commercial UAS
Quantity	10
Capability	Fly, Hover, broadcast video, record video, Photography
Life Span	UAS devices need to be upgraded as software becomes obsolete by vendors. Our current fleet will be upgraded this year.
Manufacturer's Desc	Commercial grade UAS equipped with 8k digital RGB camera. Records 8k video and has 38 min. flight time.
Purpose	Provide Aerial Support for L.E. operations
Authorized Usage	Investigative Used by the Special Enforcement Detail, Patrol, Search and Rescue to locate persons.
Costs	Initial Cost: \$1,579.60 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2019-2020 How was it Bought: Sheriff's Department funds
Required Training	15-hour Ground school, Remote Pilot Cert., 30-hour UAS Academy
Authority for Authorized Use	Certificate of Authority issued by FAA #711-1 UAS COA Sheriff's P&P section 6.135 FAA Part 107 holder and completion of Department Training

Autel Robotics Evo II 6k	
Description	Commercial UAS
Quantity	1
Capability	Fly, Hover, broadcast video, record video, Photography
Life Span	UAS devices need to be upgraded as software becomes obsolete by vendors. Our current fleet will be upgraded this year.
Manufacturer's Desc	Commercial grade UAS equipped with 6k digital RGB camera. Records 6k video and has 38 min. flight time.
Purpose	Provide Aerial Support for L.E. operations
Authorized Usage	Investigative Used by the Special Enforcement Detail, Patrol, Search and Rescue to locate persons.
Costs	Initial Cost: \$1,579.60 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2019 How was it Bought: Sheriff's Department funds
Required Training	15-hour Ground school, Remote Pilot Cert., 30-hour UAS Academy

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Authority for Authorized Use	Certificate of Authority issued by FAA #711-1 UAS COA Sheriff's P&P section 6.135 FAA Part 107 holder and completion of Department Training
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DJI Matrice 30T	
Description	Commercial UAS
Quantity	2
Capability	Fly, Hover, broadcast video, record video, Photography
Life Span	UAS devices need to be upgraded as software becomes obsolete by vendors. Our current fleet will be upgraded this year.
Manufacturer's Desc	Commercial grade UAS equipped with 4k digital RGB camera and thermal capability. Records 4k video and has 35 min. flight time.
Purpose	Provide Aerial Support for L.E. operations
Authorized Usage	Investigative Used by the Special Enforcement Detail, Patrol, Search and Rescue to locate persons.
Costs	Initial Cost: \$11,610.00 ea. Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2022 How was it Bought: Sheriff's Department funds
Required Training	15-hour Ground school, Remote Pilot Cert., 30-hour UAS Academy
Authority for Authorized Use	Certificate of Authority issued by FAA #711-1 UAS COA Sheriff's P&P section 6.135 FAA Part 107 holder and completion of Department Training

1.2 Interior use drone

Loki Robot (UAS)	
Description	Sky Hero Loki MK2
Quantity	4
Capability	Detect, reduce, and clear threats in complex terrain such as dense urban areas, and confined spaces.
Life Span	devices need to be upgraded as software becomes obsolete by vendors
Manufacturer's Desc	LOKI is the world's first purpose built tactical sUAS. Designed and built-in conjunction with several of the world's top counter terror units, LOKI Mk2 solves virtually all the problems associated with the tactical use of commercial UAS systems. LOKI is intended for close quarter, indoor and outdoor tactical scouting missions, and features a highly sensitive Night-Day + IR sensor camera giving it the ability to fly and see in complete darkness.
Purpose	Indoor tactical scouting
Authorized Usage	Barricaded suspect, High risk warrant service

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	Used by the Special Enforcement Detail inside buildings for safer entry
Costs	Initial Cost: \$11,000 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained:2021-2022 How was it Bought: Sheriff's Department funds
Required Training	No official training required but only SED may deploy.
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.111 and 9.4

1.3 Surveillance Robots

Recon Robot	
Description	Tactical "Throwbot" Recon Robotics
Quantity	11
Capability	Designed to withstand repeated drops of up to 30 feet (9 m) onto concrete, the Throwbot® 2 robot can be thrown into hazardous situations to allow operators to quickly make informed decisions when seconds count. This micro-robot is designed to be able to crawl over a variety of terrain, clearing obstacles up to 2" (5 cm) tall. Conversion kits are available which can increase the ability of the Throwbot® 2 robot to cross obstacles up to 4" (10 cm) tall or to carry and tow a combined 4 lbs (1.8 kg) of payloads using integrated mount points or a Picatinny Rail accessory.
Life Span	devices need to be upgraded as software becomes obsolete by vendors
Manufacturer's Desc	The Throwbot® 2 (TB2) robot is a throwable micro-robot platform that enables operators to obtain instantaneous video and audio reconnaissance within indoor or outdoor environments.
Purpose	Tactical scouting
Authorized Usage	Barricaded suspect, High risk warrant service Used by the Special Enforcement Detail inside buildings for safer entry
Costs	Initial Cost: \$15,500 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained:2009-2021 How was it Bought: Grant funded
Required Training	No official training required but only SED may deploy.
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.111 and 9.4

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Avatar II	
Description	Avatar 2 Tactical Robot
Quantity	1
Capability	Detect, reduce, and clear threats in complex terrain such as dense urban areas, and confined spaces. Has the ability to manipulate objects with articulating arm. Has microphone and loudspeaker to communicate through robot.
Life Span	devices need to be upgraded as software becomes obsolete by vendors
Manufacturer's Desc	<p>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've had a chance to assess the situation.</p> <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>
Purpose	Tactical scouting, moving objects, opening doors.
Authorized Usage	Barricaded suspect, High risk warrant service Used by the Special Enforcement Detail inside buildings for safer entry
Costs	Initial Cost: \$26,266 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2015 How was it Bought: Grant funded
Required Training	No official training required but only SED may deploy.
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.111 and 9.4

ICOR Robot	
Description	ICOR Mini-CALIBER Tactical Robot
Quantity	1
Capability	Detect, reduce, and clear threats in complex terrain such as dense urban areas, and confined spaces. Has the ability to manipulate objects with articulating arm. Has microphone and loudspeaker to communicate through robot.
Life Span	devices need to be upgraded as software becomes obsolete by vendors
Manufacturer's Desc	Lightweight, modular, and one-man portable, the Mini-CALIBER® SWAT and EOD Robot is tested and recommended by the National Tactical Officers Association (NTOA).

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	Designed for rapid tactical missions, the robot is simple to operate and quick to deploy for searching rooms, hallways, stairwells, and confined spaces. With rubber tracks and articulating front and rear flippers, the Mini-CALIBER effortlessly climbs stairs. It also includes an extendible rotating claw arm that simplifies opening door handles.
Purpose	Tactical scouting, moving objects, opening doors, setting charges for explosive breaching
Authorized Usage	Barricaded suspect, High risk warrant service Used by the Special Enforcement Detail inside buildings for safer entry
Costs	Initial Cost: \$68,535 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2020 How was it Bought: Grant funded
Required Training	No official training required but only SED may deploy.
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.111 and 9.4

1.4 Bomb Squad Robots

Description	Qinetiq Talon
Quantity	2
Capability	Chemical Biological Radiological Nuclear Explosive (CBRNE) Robot
Life Span	10-15 years
Manufacturer's Desc	Improvised Explosive Device (IED)/CBRNE Robot
Purpose	Bomb Squad operations
Authorized Usage	Emergency operations related CBRNE Used by the Bomb Arson Unit for safer entry and/or investigation of devices
Costs	Initial Cost: \$323,000.00 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained:2020 How was it Bought: Sheriff's Department funds
Required Training	No official training required but only Bomb Arson may deploy.
Authority for Authorized Use	Certified by the FBI/ATF to render safe explosive threats Sheriff's P&P sections 6.7, 6.8 and 6.9

Description	ICOR Caliber T5
Quantity	3
Capability	Improvised Explosive Device (IED) Robot
Life Span	10-15 years

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Manufacturer's Desc	IED Robot
Purpose	Bomb Squad operations
Authorized Usage	Emergency operations related CBRNE Used by the Bomb Arson Unit for safer entry and/or investigation of devices
Costs	Initial Cost: \$123,000.00 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2014 How was it Bought: Sheriff's Department funds
Required Training	No official training required but only Bomb Arson may deploy
Authority for Authorized Use	Certified by the FBI/ATF to render safe explosive threats Sheriff's P&P sections 6.7, 6.8 and 6.9

Description	Remotec Mk5
Quantity	1
Capability	Vehicle Born Improvised Explosive Device Robot
Life Span	10-15 years
Manufacturer's Desc	Improvised Explosive Device (IED) Robot
Purpose	Bomb Squad operations
Authorized Usage	Emergency operations related CBRNE Used by the Bomb Arson Unit for safer entry and/or investigation of devices
Costs	Initial Cost: \$0 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2013 How was it Bought: Donation - Defense Reutilization Marketing Office (DRMO)
Training Needed	No official training required but only Bomb Arson may deploy
Authority for Authorized Use	Certified by the FBI/ATF to render safe explosive threats Sheriff's P&P sections 6.7, 6.8 and 6.9

Description	Remotec F6B
Quantity	1
Capability	Improvised Explosive Device (IED) Robot
Life Span	20 years
Manufacturer's Desc	IED Robot
Purpose	Bomb Squad operations
Authorized Usage	Emergency operations related CBRNE Used by the Bomb Arson Unit for safer entry and/or investigation of devices

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Costs	Initial Cost: \$220,000.00 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained:2013 How was it Bought: Cal OES 1122 – Drug Procurement Program
Required Training	No official training required but only Bomb Arson may deploy
Authority for Authorized Use	Certified by the FBI/ATF to render safe explosive threats Sheriff's P&P sections 6.7, 6.8 and 6.9

Description	ICOR Mini-Caliber
Quantity	2
Capability	Improvised Explosive Device (IED) Robot
Life Span	10-15 years
Manufacturer's Desc	IED Robot
Purpose	Bomb Squad operations
Authorized Usage	Emergency operations related CBRNE. Used by the Bomb Arson Unit for safer entry and/or investigation of devices
Costs	Initial Cost: \$85,000.00 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: How was it Bought: Sheriff's Department funds
Required Training	No official training required but only Bomb Arson may deploy.
Authority for Authorized Use	Certified by the FBI/ATF to render safe explosive threats Sheriff's P&P sections 6.7, 6.8 and 6.9

Description	Qinetiq Dragon Runner
Quantity	1
Capability	Improvised Explosive Device (IED) Robot
Life Span	10-15 years
Manufacturer's Desc	IED Robot
Purpose	Bomb Squad operations
Authorized Usage	Emergency operations related CBRNE Used by the Bomb Arson Unit for safer entry and/or investigation of devices
Costs	Initial Cost: \$100,000.00 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained:2014 How was it Bought: UASI Grant Funds
Required Training	No official training required but only Bomb Arson may deploy.

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Authority for Authorized Use	Certified by the FBI/ATF to render safe explosive threats Sheriff's P&P sections 6.7, 6.8 and 6.9
Description	TeleRob TeleMax EVO PLUS
Quantity	1
Capability	Improvised Explosive Devise (IED) Robot
Life Span	10-15 years
Manufacturer's Desc	IED Robot
Purpose	Bomb Squad operations
Authorized Usage	Emergency operations related CBRNE Used by the Bomb Arson Unit for safer entry and/or investigation of devices
Costs	Initial Cost: \$431,632.70 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained:2022 How was it Bought: UASI Grant Funds
Required Training	No official training required but only Bomb Arson may deploy.
Authority for Authorized Use	Certified by the FBI/ATF to render safe explosive threats Sheriff's P&P sections 6.7, 6.8 and 6.9

2.0 ARMORED PERSONNEL CARRIERS/MULTIPURPOSE WHEELED VEHICLES

2.1 Armored Car

Armored Car (25564)	
Description	2005 International Armored Truck 7600
Quantity	1
Capability	The Armored Car is a large mobile armored vehicle used to conduct rescues, transport personnel and equipment, and provide security to the public. The Armored Car is the largest armored vehicle currently in the SDSD.
Life Span	N/A
Manufacturer's Desc	Being prepared for everything, means being ready for anything. When the call comes, the WorkStar® is there with all-wheel drive performance and robust power to take you where other trucks can't go, plus Diamond Logic® programmable safety features to automatically protect equipment and ensure years of reliable service.
Purpose	Regional Asset. Provides armored vehicle response to critical incidents
Authorized Usage	To protect and safely transport Sheriff's personnel to active scenes Used by the Special Enforcement Detail

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Costs	Initial Cost: \$146,357.28 Re-Occurring Costs: \$0 Maintenance Costs: \$10,000.00 per year Year Obtained:2004 How was it Bought: Sheriff's Department funds
Required Training	Class B California Driver's license (passenger and air brake endorsement)
Authority for Authorized Use	Sheriff's P&P section 5.2

2.2 Bear Cat

BearCat (5605)	
Description	2008 Ford F550 Armored Lenco BEARCAT body
Quantity	1
Capability	The BearCat is a large mobile armored vehicle used to conduct rescues, transport personnel and equipment, and provide security to the public. The BearCat is smaller and more maneuverable than the Armored Car.
Life Span	N/A
Manufacturer's Desc	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 only found on the Lenco BearCat line of armored SWAT vehicles for Police and Government.
Purpose	Regional asset. Provides armored vehicle response to critical incidents
Authorized Usage	To protect and safely transport Sheriff's personnel to active scenes Used by the Special Enforcement Detail
Costs	Initial Cost: \$275,000.00 Re-Occurring Costs: \$0 Maintenance Costs: \$7,000.00 per year Year Obtained: 2008 How was it Bought: Grant Funded
Required Training	Class C California Driver's license
NOTE:	An award letter has been signed and will be given to Lenco to procure a 2021-2022 BearCat for aprox. \$358,000.00. This new BearCat will be primarily used in lieu of the 2008 model mentioned in this policy. The Urban Areas Security Initiative (UASI) Grant will be funding this purchase.

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Authority for Authorized Use	Sheriff's P&P section 5.2
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2.3 Armored Van

Armored Van (GV4584)	
Description	2019 Ford Transit 350 Cargo
Quantity	1
Capability	The Armored Van is a large mobile armored vehicle used to conduct rescues, transport personnel and equipment, and provide security to the public. The Armored Van does not have obvious law enforcement insignia and could be used in a low-visibility capacity. The Armored Van is the smallest armored vehicle currently in the SDSD.
Life Span	N/A
Manufacturer's Desc	Ford Transit Cargo Van offers plenty of cargo space for installing racks and bins as well as convenient storage of tools, supplies, equipment, and more.
Purpose	Regional asset. Provides armored vehicle response to critical incidents
Authorized Usage	To protect and safely transport Sheriff's personnel to active scenes Used by the Special Enforcement Detail
Costs	Initial Cost: \$149,450.00 Re-Occurring Costs: \$0 Maintenance Costs: \$2,500.00 per year Year Obtained: 2019 How was it Bought: Grant Funded
Required Training	Class C California Driver's license
Authority for Authorized Use	Sheriff's P&P section 5.2

2.4 Bomb Squad Armored Vehicle

Bomb Squad Vehicle	
Description	Lenco Bombcat
Quantity	1
Capability	Explosive Ordinance Disposal Variant Bearcat
Life Span	20 years
Manufacturer's Desc	Bomb Squad/EOD Armored vehicle for operating robots
Purpose	Bomb Squad operations
Authorized Usage	Emergency operations related to explosive ordinance disposal Used by the Bomb Arson Unit
Costs	Initial Cost: \$443,840.00 Re-Occurring Costs: \$0 Maintenance Costs: \$7,000.00 per year

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	Year Obtained:2021 How was it Bought: Grant Funds
Required Training	Class C California Driver's license
Authority for Authorized Use	Sheriff's P&P section 5.2

3.0 FIREARMS/AMMUNITION OF .50 CALIBER OR GREATER

3.1 .50 caliber rifles

.50 cal EDM Windrunner	
Description	M96 EDM Windrunner .50 cal bolt gun
Quantity	1
Capability	Vehicle Disabling, Extreme Long-Range Shooting, Penetrating Armor
Life Span	N/A
Manufacturer's Desc	<p>Since 1990 EDM ARMS Inc. has kept the USA and Foreign Countries armed with precision 50 BMG Rifles. The first rifles were bench rest type and were the predecessor to the famous Windrunner Brand the M96. The M96 represents the finest in manufacturing technology and 20 years of refinements. With weapons all over the world many in combat, EDM ARMS has delivered over 3500 units. We put a 1 MOA accuracy guarantee on M96 rifles. These are the weapons that make shots at distances the human eye cannot see.</p> <p>Besides being one of the most accurate 50 BMG on the market, the M96 is the most versatile. The most notable feature is that it breaks down and fits in a small inconspicuous package, a soft case that fits in the trunk of a small vehicle, also assembling in 30 seconds with same impact of bullet. Its small footprint / package is one of the key reasons we have sold so many M96 Windrunners. Secondly, we only use American Steel, and every part is manufactured right here in the USA. One of the few products in the world entirely made in the United States of America.</p>
Purpose	<p>San Diego County is unique due to its location to numerous military installations, numerous ports of entries and the shared border with Mexico. Due to the proximity of cartel border violence, the past theft of military ordinance and armored military vehicles from military installations, terrorism acts, San Diego County Sheriff's SED has a necessary regional need for the .50 caliber rifles.</p> <p>Most law enforcement agencies in San Diego do not have possession of these type of weapon platforms, but SED would provide them at a time</p>

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	of need to our regional partners. These weapon platforms provide the capability to pierce hard armor, multiple layers of mild steel, substantial brick, concrete, and other materials that may give hard cover to potential suspects. The kinetic energy of the .50 caliber projectile provides the ability to disable engines of various vehicles such as automobiles, boats, and aircraft.
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$7,144 per firearm Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: Pre 2010 How was it Bought: Procured from Sheriff's Evidence Note: Firearms retained for Departmental use in accordance with California Penal Code Section 34005(b), firearms that are approved by the Weapons Training Unit (WTU) command (or Supervisor) will be retained for official purposes and shall be transferred to WTU. For each weapon retained, appropriate paperwork will be filed with the Financial Services Division to update the department's inventory.
Required Training	40 hour – Sheriff's Precision Rifle Course (Not CA POST)
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

.50 cal McMillan Tac-50	
Description	McMillan Tac-50 .50 cal bolt gun
Quantity	1
Capability	Vehicle Disabling, Extreme Long-Range Shooting, Penetrating Armor
Life Span	N/A
Manufacturer's Desc	The McMillan TAC-50 is a long-range anti-materiel precision rifle. The TAC-50 is based on previous designs from the same company, which first appeared during the late 1980s. As of 2017 it holds the record for the longest confirmed sniper shot. McMillan makes several .50 caliber rifles, based on the same proprietary action, for military, law enforcement and civilian use. It is produced in Phoenix, Arizona, in the United States by McMillan Firearms Manufacturing.
Purpose	San Diego County is unique due to its location to numerous military installations, numerous ports of entries and the shared border with Mexico. Due to the proximity of cartel border violence, the past theft of military ordinance and armored military vehicles from military installations, terrorism acts, San Diego County Sheriff's SED has a necessary regional need for the .50 caliber rifles. Most law enforcement agencies in San Diego do not have possession of these type of weapon platforms, but SED would provide them at a time

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	of need to our regional partners. These weapon platforms provide the capability to pierce hard armor, multiple layers of mild steel, substantial brick, concrete, and other materials that may give hard cover to potential suspects. The kinetic energy of the .50 caliber projectile provides the ability to disable engines of various vehicles such as automobiles, boats, and aircraft.
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$10,915.75 per firearm Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: 2008 How was it Bought: Sheriff's Department funds
Required Training	40 hour – Sheriff's Precision Rifle Course (Not CA POST)
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

3.2 M240 Machine Gun

FN M240 Machine Gun 7.62mm	
Description	FN M240B 7.62MM Belt-Fed Machine Gun
Quantity	1
Capability	The M240 is a belt-fed machine gun that can be mounted to the turret in an armored vehicle like a Bearcat.
Life Span	N/A
Manufacturer's Desc	<p>The FN® M240 (also known as the FN MAG® or FN MAG® 58) family of medium machine guns (7.62x51mm NATO) has long been employed by all services of the U.S. Armed Forces. The FN® M240B is the “go to/can do” medium machine gun for all branches of the U.S. military, offering absolute reliability, extended range, and an exceptional service life. This weapon’s high volume of fire makes it the principal suppressive fire instrument for the military. The M240 is one of the most essential and widely used small arms in Iraq and Afghanistan.</p> <p>The M240 B’s cold hammer-forged MIL-SPEC barrel has a hard-chromed bore for longer life and improved accuracy. The receiver is machined steel and is equipped with a top-mounted MIL-STD-1913 optical rail. The crossbolt safety and curved trigger help enhance operator control. All M240Bs include one spare barrel.</p>
Purpose	San Diego County is unique due to its location to numerous military installations, numerous ports of entries and the shared border with Mexico. Due to the proximity of cartel border violence, the past theft of military ordinance and armored military vehicles from military

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	<p>installations, terrorism acts, San Diego County Sheriff's SED has a necessary regional need for the Fabrique National M240 7.62 mm machine gun.</p> <p>Other law enforcement agencies in San Diego do not have possession of this type of weapon platform but SED would provide this and a qualified operator as a regional asset should the need arise. This weapon platform provides the capability to pierce hard armor, multiple layers of mild steel, substantial brick, concrete, and other materials that may give hard cover to potential suspects. The kinetic energy of the 7.62 caliber projectile provides the ability to disable engines of various vehicles such as automobiles, boats, and aircraft.</p> <p>It provides a sustained rate of fire capable of overcoming armed resistance when normal organic SWAT weapon platforms are defeated by armor and or weapons. The M240 could be utilized to defend against an attack from criminals that have access to armored vehicles, automatic weapons, and armor piercing incendiary rounds. It could also be utilized to provide overwhelming firepower in the unlikely event of a large-scale terrorist event.</p>
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	<p>Initial Cost: \$21,109</p> <p>Re-Occurring Costs: \$0</p> <p>Maintenance Costs: As needed</p> <p>Year Obtained: 2008</p> <p>How was it Bought: Sheriff's Department funds</p>
Required Training	8-hour M240 Operators Course (Not CA POST)
Authority for Authorized Use	<p>Sheriff's P&P section 8.8</p> <p>Sheriff's Use of Force Policy</p>

3.3 .50 caliber ammunition

Hornady 50 BMG Ammunition	
Description	Hornady .50 Cal A-MAX 750 gr
Quantity	100 rounds
Life Span	NA
Manufacturer's Desc	Hornady has taken the technology of the A-Max bullet and turned it into a 50 caliber Match cartridge. With a muzzle energy of over 13,000 ft. lbs., this loaded round creates destructive potential but keeps it accurate and consistent at the same time
Purpose	Penetrate intermediate barriers, armored vehicles, disable engines, extreme long-range shooting
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail

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Costs	Initial Cost: \$510.00 A Case (100 rounds) Re-Occurring Costs: \$500-\$1,000 Maintenance Costs: None Year Obtained: 2017 How was it Bought: Sheriff's Department funds
Required Training	N/A
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

4.0 SPECIALIZED FIREARMS/AMMUNITION LESS THAN .50 CALIBER

4.1 .223/5.56 caliber rifles

Colt AR-15 Rifle / M4 Carbine	
Description	Colt AR-15 Rifle / M4 Carbine (.223/5.56)
Quantity	77
Capability	The Colt AR-15 is a lightweight, magazine-fed, gas-operated rifle. Some of the rifles have select fire triggers. Some of the rifles have longer barrels and are designed for longer, more precise shots.
Life Span	N/A
Manufacturer's Desc	Throughout the world today, Colt's reliability, performance, and accuracy provide our Armed Forces the confidence required to accomplish any mission. Colt's LE6920 series shares many features of its combat-proven brother, the Colt M4.
Purpose	The AR-15 can stop threats of great bodily injury or death at close and intermediate ranges. The AR-15 platform is capable of firing more accurately and quicker than a pistol while holding more rounds in the magazine and having better ballistic qualities.
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$2500 per firearm Re-Occurring Costs: \$0 Maintenance Costs: \$0-\$500per firearm every 2 years Year Obtained: Varies (2010-2019) How was it Bought: Sheriff's Department funds
Required Training	24 hour – Sheriff's Patrol Rifle Course (CA POST) and Sheriff's SWAT Academy
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

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4.2 .308 caliber rifles

Accuracy International AT	
Description	.308 Accuracy International AT Bolt Action Rifle
Quantity	8
Capability	Long Range Precision Shooting
Life Span	N/A
Manufacturer's Desc	The AT (Accuracy Tactical) continues the legacy of the combat proven AW308 and takes the AW to new levels. The AIAT has a 20-inch quick change barrel and a folding stock. The AT is ideal for Law Enforcement and civilian users.
Purpose	The AIAT is an accurate rifle for precision shooting. These rifles are equipped with magnified optics and can be utilized to take precision shots at intermediate to long ranges. The .308 caliber bullet it shoots is also bigger and heavier than a typical .223 caliber bullet from an AR-15 which means it will penetrate barriers like glass with much less deflection.
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$4332.50 Re-Occurring Costs: \$0 Maintenance Costs: \$0-\$1000per firearm every 2 years Year Obtained: 2018 How was it Bought: Sheriff's Department funds
Required Training	40 hour – Sheriff's Precision Rifle Course (Not CA POST)
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

Aero Precision .308	
Description	Aero Precision .308
Quantity	4
Capability	The .308 AR-10 can stop threats of great bodily injury or death at close and intermediate ranges. The AR-10 platform is capable of firing more accurately and quicker than a pistol while holding more rounds in the magazine and having better ballistic qualities.
Life Span	N/A
Manufacturer's Desc	Aero Precision AR-10 M5 .308 Stripped Lower Receiver helps you build a big-bore AR from the ground up. Mil-spec dimensions and coating ensure the highest quality and correct component interface.
Purpose	The AR-10 platforms are equipped with magnified optics and can be utilized to take precision shots at intermediate to long ranges. The .308 caliber bullet it shoots is also bigger and heavier than a typical .223 caliber bullet from an AR-15 which means it will penetrate barriers like glass with much less deflection.

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Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$325 per lower receiver Re-Occurring Costs: \$0 Maintenance Costs: \$0-\$1000per firearm every 2 years Year Obtained: 2021-2022 How was it Bought: Sheriff's Department funds
Required Training	40 hour – Sheriff's Precision Rifle Course (Not CA POST)
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

Knights Armament SR-25 Rifle	
Description	Knights Armament SR-25 Rifle 7.62X51
Quantity	3
Capability	The SR-25 can stop threats of great bodily injury or death at close and intermediate ranges. The SR-25 platform is capable of firing more accurately and quicker than a pistol while holding more rounds in the magazine and having better ballistic qualities.
Life Span	N/A
Manufacturer's Desc	Knights Armament SR-25 Rifle The SR-25 is a designated marksman rifle and semi-automatic rifle designed by Eugene Stoner and manufactured by Knight's Armament Company.
Purpose	The SR-25 platforms are equipped with magnified optics and can be utilized to take precision shots at intermediate to long ranges. The .308 caliber bullet it shoots is also bigger and heavier than a typical .223 caliber bullet from an AR-15 which means it will penetrate barriers like glass with much less deflection.
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$4900 Re-Occurring Costs: \$0 Maintenance Costs: \$0-\$500per firearm every 2 years Year Obtained: Varies (Pre 2010-2019) How was it Bought: Procured from Sheriff's Evidence. Note: Firearms retained for Departmental use in accordance with California Penal Code Section 34005(b), firearms that are approved by the Weapons Training Unit (WTU) command (or Supervisor) will be retained for official purposes and shall be transferred to WTU. For each weapon retained, appropriate paperwork will be filed with the Financial Services Division to update the department's inventory.
Required Training	40 hour – Sheriff's Precision Rifle Course (Not CA POST)
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

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Description	M1 Garands
Quantity	13
Capability	Fire .308 Caliber Blank Ammunition
Life Span	15 to 20 years
Manufacturer's Desc.	Semi-Automatic Army Service Rifle used during World War 2 and Korea
Purpose	Honor Guard Events (such as parades, funerals, graduations, and other Sheriff ceremonies)
Authorized Usage	21 Gun Salute during funerals, displays, and other Sheriff Approved Ceremonies.
Cost	Initial Cost: \$0.00 Re-Occurring Cost \$0.00 Maintenance Cost \$250.00 every five years Year Obtained 2010 How was it was brought: Donation from the US Army
Required Training	4 Hours annually
Authority For Use	Sheriff's Policy & Procedure 3.51 and 3.57

4.3 9mm caliber rifles

HKMP5 HK94 / HK53	
Description	HK MP5 9mm
Quantity	19
Capability	The MP5 can stop threats of great bodily injury or death at close and intermediate ranges. The MP5 platform is capable of firing more accurately and quicker than a pistol while holding more rounds in the magazine.
Life Span	N/A
Manufacturer's Desc	Developed by Heckler & Koch in the mid-1960s, the 9 mm MP5 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

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	modes of fire make the MP5 extremely accurate and controllable.
Purpose	The MP5 is more controllable and accurate than a pistol. It does not provide the same ballistic capabilities of the AR-15, but it is smaller and more maneuverable in small spaces like vehicles and can be more easily concealed for dignitary protection details.
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$2500 per firearm Re-Occurring Costs: \$0 Maintenance Costs: \$0-500 per firearm every 2 years Year Obtained: Varies (Pre 2010-2019) How was it Bought: Sheriff's Department funds
Required Training	8 hour - Sheriff's MP5 Operator Course (Not CA POST)
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

4.4 .308 ammunition

Hornady 308 Win Eld Match	
Description	Hornady .308 Win 168gr ELD Match TAP AR
Quantity	25,000 Rounds
Capability	Precision Round, Limited Penetration
Life Span	N/A
Manufacturer's Desc	Designed specifically for the 308 AR-10 platform and its variants, the resilient tip of the ELD Match bullet aids in reliable feed and function, and the propellant is specifically tailored to efficiently operate in the AR-10. 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.
Purpose	Precision Round with limited penetration
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$210.00 A Case (200 rounds) Re-Occurring Costs: \$10,500.00 Maintenance Costs: None Year Obtained: 2020-2022 How was it Bought: Sheriff Department funds
Required Training	N/A
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

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Hornady .308 Win GMX	
Description	Hornady .308 Win 165gr GMX TAP
Quantity	2 cases
Capability	Penetrate Intermediate Barriers, Residential windows/Automotive Glass
Life Span	N/A
Manufacturer's Desc	The 165 gr. GMX® TAP® Heavy Barrier is constructed of a monolithic material and has a double-cannelure design. The GMX® features a copper alloy that shoots cleaner than pure copper, fouls less and delivers devastating terminal performance. The GMX® bullet penetrates heavy barriers such as 1” laminated glass with exceptional weight retention while still delivering superior terminal performance on the other side.
Purpose	Penetrate Intermediate Barriers, Residential windows/Automotive Glass
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$330.00 A Case (200 Rounds) Re-Occurring Costs: \$660.00 Maintenance Costs: None Year Obtained: 2020 How was it Bought: Sheriff Department funds
Required Training	N/A
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

Ruag Swiss P Armor Piercing	
Description	Ruag Swiss P Armor Piercing 196 gr .308
Quantity	5 cases
Capability	For Penetrating Hard Targets, Anti Materiel round
Life Span	NA
Manufacturer's Desc	To be prepared for every scenario, snipers require a round with high penetration power on hard targets such as reinforced glass, body- and light vehicle armor. Because the core stays intact during penetration, it transfers extremely effective residual energy to hard targets. The bullet jacket provides best accuracy, protects the barrel, and is stripped off upon impact
Purpose	Penetrate Hard Targets, Heavy Metal, Laminated Glass, Body Armor
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$920.00 A Case (200 Rounds) Re-Occurring Costs: \$1,840.00 Maintenance Costs: None Year Obtained: 2017

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	How was it Bought: Sheriff's Department funds
Required Training	N/A
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

Ruag Swiss P Tactical	
Description	Ruag Swiss P Tactical 164 gr .308
Quantity	2,200 Rounds
Capability	Penetrate Intermediate Barriers, Residential windows/Automotive Glass
Life Span	NA
Manufacturer's Desc	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
Purpose	Penetrate Intermediate Barriers, Residential windows/Automotive Glass
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$800.00 a case (200 Rounds) Re-Occurring Costs: \$4,000.00 Maintenance Costs: None Year Obtained: 2021-2022 How was it Bought: Sheriff's Department funds
Required Training	N/A
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

.NATO M80 Linked Ammo	
Description	.308/7.62 mm NATO M80 Linked 147 gr Full Metal Jacket
Quantity	20 cases
Capability	Penetrate Hard Targets, Heavy Metal, Laminated Glass, Body Armor
Life Span	N/A
Manufacturer's Desc	The 7.62mm M80 Ball round is for use against personnel and unarmored targets. It has an unpainted bullet tip and is known by three other names: 7.62 x 51 mm, 7.62 NATO and .308 Winchester. The round works in the M60 and M240 machine guns and a host of 7.62mm rifles.

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Purpose	Penetrate Hard Targets, Heavy Metal, Laminated Glass, Body Armor
Authorized Usage	To defend against an imminent threat of serious bodily injury or death. Used by the Special Enforcement Detail
Costs	Initial Cost: \$592.00 per case of 800 Re-Occurring Costs: \$0 Maintenance Costs: NA Year Obtained: 2017 How was it Bought: Sheriff Department funds
Required Training	N/A
Authority for Authorized Use	Sheriff's P&P section 8.8 Sheriff's Use of Force Policy

5.0 EXPLOSIVE BREACHING ROUNDS AND EXPLOSIVE BREACHING APPARATUS

5.1 Explosive Breaching Rounds

Description	Royal Arms 12-gauge breaching rounds
Quantity	170 rounds
Capability	Used to defeat locks, deadbolts, and hinges.
Life Span	N/A
Manufacturer's Desc	Designed to be fired point blank against solid objects.
Purpose	Used to defeat locks, deadbolts, and hinges.
Authorized Usage	High risk warrant service on fortified locations Used by the Special Enforcement Detail
Costs	Initial Cost: \$2250.00 for a case of 400 Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2017 How was it Bought: Sheriff's Department funds
Required Training	40 hours Mechanical Breaching Course (Not CA POST)
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.111 and 9.4

5.2 Detonator

	<i>NONEL millisecond delay detonator</i>
Description	Blasting cap
Quantity	108
Capability	Provides a means to initiate det cord used in breaching applications

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Life Span	3 years
Manufacturer's Desc	<p>NONEL® nonelectric delay detonator MS 1.1B units consist of a length of orange shock tube with a 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. Easy-to-read, color-coded delay tags display the delay number and nominal firing time prominently.</p> <p>NONEL MS is designed to provide in-hole time for underground (non-coal) and surface blast applications in the mining, quarry and construction industries and can be used in combination with a detonating cord trunkline, NONEL EZTL™, NONEL EZ DET® and/or NONEL TD detonators for maximum timing flexibility.</p>
Purpose	Provides a means to initiate det cord used in breaching applications
Authorized Usage	High risk warrant service on fortified locations Used by the Special Enforcement Detail
Costs	<p>Initial Cost: \$0 Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 How was it Bought: Donated by vender</p>
Required Training	48 hour - 6-day Explosive Breaching Course (Not CA POST)
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.111 and 9.4

5.3 Detonation cord

	<i>18 grain Detonating cord</i>
Quantity	32.85 pounds
Capability	Used to safely breach doors
Life Span	5 years
Manufacturer's Desc	<p>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>
Purpose	Used to safely breach doors
Authorized Usage	High risk warrant service on fortified locations Used by the Special Enforcement Detail
Costs	<p>Initial Cost: \$0 Re-Occurring Costs: \$0 Maintenance Costs: None</p>

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	Year Obtained: 2020 How was it Bought: Donated by vender
Required Training	48-hour Explosive Breaching Course (Not CA POST)
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.111 and 9.4

<i>Primacord</i>	
Description	25 grain Detonating cord
Quantity	22.36 pounds
Capability	Used to safely breach doors
Life Span	5 years
Manufacturer's Desc	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.
Purpose	Used to safely breach doors
Authorized Usage	High risk warrant service on fortified locations Used by the Special Enforcement Detail
Costs	Initial Cost: \$0 Re-Occurring Costs: As needed. Maintenance Costs: None Year Obtained: 2020-2022 How was it Bought: Donated by vender
Required Training	48-hour Explosive Breaching Course (Not CA POST)
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.111 and 9.4

<i>Primacord</i>	
Description	50 grain Detonating cord
Quantity	22.37 pounds
Capability	Used to safely breach doors
Life Span	5 years
Manufacturer's Desc	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.
Purpose	Used to safely breach doors

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Authorized Usage	High risk warrant service on fortified locations Used by the Special Enforcement Detail
Costs	Initial Cost: \$0 Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020-2022 How was it Bought: Donated by vender
Required Training	48-hour Explosive Breaching Course (Not CA POST)
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.111 and 9.4

6.0	CHEMICAL AGENT, PEPPER SPRAY, OLEORESIN FILLED PROJECTILES, SPECIALITY LESS LETHAL MUNITIONS, FLASHBANG GRANADES
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6.1 Chemical Agent

	<i>Spede-Heat Continuous Discharge Grenade, CS</i>
Quantity	27 cases – 24 per case
Capability	Can be hand thrown, deployed via robot, launched, placed into a Gas Ram, Burn Safe and Munitions Pole
Life Span	5-year manufacturer warranty
Manufacturer's Desc	The Spede-Heat CS Grenade is a high-volume continuous burn device. It expels its payload in approximately 30-40 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 inches by 2.62 inches and holds approximately 81.2g of CS chemical agent.
Purpose	To safely resolve critical situations such as violent civil unrest and high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$2,474 per case Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for Authorized Use	Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

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	<i>Han-Ball Grenade, CS</i>
Quantity	24 cases - 24 per case
Capability	Can be hand thrown, deployed via robot, launched, placed into a Gas Ram, Burn Safe and Munitions Pole
Life Span	5-year manufacturer warranty
Manufacturer's Desc	The Han-Ball CS Grenade is an outdoor use grenade expelling its payload in approximately 15-20 seconds. The rubber ball round has an overall size of 4.8 in. tall, including the fuse head, and 3.1 in. diameter. This launchable grenade holds approximately 45.5g of CS chemical agent which is expelled through three ports around the equator of the ball.
Purpose	To safely resolve critical situations such as violent civil unrest and high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$3,450 per case Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 (Dates vary due to re-occurring purchase) How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for Authorized Use	Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

	<i>5230B – CS Baffled canister Grenade, Pyro, Low Flame Potential</i>
Quantity	2 cases - 24 per case
Capability	Can be hand thrown, deployed via robot, launched, placed into a Gas Ram, Burn Safe and Munitions Pole
Life Span	5-year manufacturer warranty
Manufacturer's Desc	The 5230B pyrotechnic grenade is designed for indoor use delivering a maximum amount of irritant smoke throughout multiple rooms with minimal risk of fire.
Purpose	To safely resolve critical situations such as violent civil unrest and high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$3,700 per case Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for	Mission based under the authority of California Penal Code section

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Authorized Use	1534(a) Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy
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<i>Riot Control Continuous Discharge Grenade, CS</i>	
Quantity	5 cases - 24 per case
Capability	Can be hand thrown, deployed via robot, launched, placed into a Gas Ram, Burn Safe and Munitions Pole
Life Span	5-year manufacturer warranty
Manufacturer's Desc	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 2.6 in. and hold approximately 25g of OC chemical agent.
Purpose	To safely resolve critical situations such as violent civil unrest and high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$865 per case Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for Authorized Use	Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

<i>Pocket tactical Grenade, CS</i>	
Quantity	10 cases - 24 per case
Capability	Can be hand thrown, deployed via robot, launched, placed into a Gas Ram, Burn Safe and Munitions Pole
Life Span	5-year manufacturer warranty
Manufacturer's Desc	The Pocket Tactical CS Grenade is small, and lightweight. The 25.2g of CS chemical agent will burn approximately 20-40 seconds. At 4.75 in. by 1.4 inches in size, it easily fits in most tactical pouches. The is a launchable grenade; however, it is normally used 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.
Purpose	To safely resolve critical situations such as violent civil unrest and high-

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	risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$570.00 per case Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for Authorized Use	Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

	<i>Ferret 40mm Liquid Barricade Penetrator Round, CS</i>
Quantity	3 cases - 24 per case
Capability	Can be launched via a 40mm launcher.
Life Span	5-year manufacturer warranty
Manufacturer's Desc	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.
Purpose	To safely resolve critical situations such as violent civil unrest and high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$535 per case Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 (Dates vary due to re-occurring purchase) How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for Authorized Use	Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy
	<i>Military-Style Saf-Smoke Grenade</i>
Quantity	7 cases - 24 per case
Capability	Can be hand thrown, deployed via robot, launched, or placed into a Munitions Pole
Life Span	5-year manufacturer warranty

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Manufacturer's Desc	The Saf-Smoke Grenade was designed for training, by 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 less toxic than Hexachloroethane (HC) smoke. The Saf-Smoke Grenade emits a very white smoke.
Purpose	To safely resolve critical situations such as violent civil unrest and high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$660.00 per case Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 (Dates vary due to re-occurring purchase) How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for Authorized Use	Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

	<i>OC Aerosol Grenade 1.3% Fogger, 6 oz.</i>
Quantity	1 case - 9 per case
Capability	Can be hand thrown
Life Span	5-year manufacturer warranty
Manufacturer's Desc	The 6 oz. OC Aerosol Grenade will deliver its payload of 1/3% MC% OC in 15-20 seconds. This is an anatomized mist which enhances the pungent 1.3% OC formulation. Ideal for area denial areas like attics, garages, etc. This device has minimum clean up. The canister may also be handheld to direct the spray pattern. This product is designed to provide room clearing ability with minimum clear up requirements.
Purpose	To safely resolve critical situations such as violent civil unrest and high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$148.00 per case Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for Authorized Use	Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

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	<i>OC Vapor Aerosol Grenade</i>
Quantity	1 case – 24 per case
Capability	Can be hand thrown and deployed in a Munitions Pole
Life Span	5-year manufacturer warranty
Manufacturer's Desc	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.
Purpose	To safely resolve critical situations such as violent civil unrest and high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$42.26 per Aerosol Grenade Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for Authorized Use	Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

6.2 Oleoresin filled projectiles

	<i>Pepper Ball LIVE-X or equivalent</i>
Quantity	142 cases (375 per case)
Capability	Deployed via a Pepper Ball launcher.
Life Span	5-year manufacturer warranty
Manufacturer's Desc	Pepper Ball: Our most potent and powerful concentration of PAVA pepper powder. Once round of LIVE-X contains the equivalent PAVA irritant chemical agent in 10 regular Pepper Ball LIVE rounds.
Purpose	To safely resolve critical situations such as violent civil unrest or high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail, Patrol, Detentions and Court Services Bureau
Costs	Initial Cost: \$838.09 per case (375 count)

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	Re-Occurring Costs: \$45,360.00 Maintenance Costs: None Year Obtained: (Dates vary due to re-occurring purchase) How was it Bought: Sheriff's Department funds
Required Training	32 hour – Sheriff's Less Lethal Course (Not CA POST)
Authority for Authorized Use	Sheriff's Use of Force Policy Detentions P&P I.85 and I.89

6.3 Pepper Spray

	<i>First Defense 1.3% MC MK-9 Stream OC Aerosol</i>
Quantity	6 cases - 12 per case
Capability	Hand deployment only
Life Span	5-year manufacturer warranty
Manufacturer's Desc	The MK-9 features an easy-to-use trigger handle, is intended for use in crowd management and will deliver 14 short bursts of OC at an effective range of 18-20 ft. This 1.3% MC OC aerosol product utilizes a stream delivery method providing a target-specific, strong concentrated stream for greater standoff. Non-flammable / Electronic Discharge Weapon (EDW) safe.
Purpose	To safely resolve critical situations such as violent civil unrest or high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$425.00 per case Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 (Dates vary due to re-occurring purchase) How was it Bought: Sheriff's Department funds
Required Training	San Diego Regional Law Enforcement Academy
Authority for Authorized Use	Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

	<i>First Defense 1.3% MC MK-46H Stream OC Aerosol</i>
Quantity	4
Capability	Hand deployment only
Life Span	5-year manufacturer warranty
Manufacturer's Desc	The MK-46 features a trigger handle, is intended for use in crowd management and will deliver 26 short bursts of OC at an effective range of 25-30 ft. This 1.3% MC OC aerosol product utilizes a stream delivery method providing a target specific, strong concentrated stream for

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	greater standoff. Non-flammable / Electronic Discharge Weapon (EDW) safe.
Purpose	To safely resolve critical situations such as violent civil unrest or high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$353.63 each Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2016 (Dates vary due to re-occurring purchase) How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for Authorized Use	Sheriff's P&P section 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

	<i>First Defense 1.3% MC OC Aerosol Refill Solution for MK-46V/ MK-46H</i>
Quantity	12
Capability	Refill for MK-46H / MK-46V.
Life Span	5-year manufacturer warranty
Manufacturer's Desc	This refill container is for the MK-46 system. By following the instructions, operators can refill the MK-46V or H in minutes and be ready to continue their mission. Non-flammable / Electronic Discharge Weapon (EDW) safe.
Purpose	To safely resolve critical situations such as violent civil unrest or high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$59.93 Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2020 (Dates vary due to re-occurring purchase) How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

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<i>X10 Extension Device</i>	
Quantity	4
Capability	A tool to remove obstructions during cell extraction and or to introduce O.C. irritant for assaultive behavior groups and or imminent threats
Life Span	Limited manufacturer warranty 90 days after shipment. These were purchased 2014 according to invoice.
Manufacturer's Desc	The X10 includes a replaceable OC cylinder. Each cylinder is capable of approximately 8 one-second bursts. The fog, forced by a high-pressure CO2 gas, passes to the end of the X10 probe and is expelled forward through angled vent holes. The X10 weighs approximately 28.5 pounds, including a full Pepper Spray cylinder. The weight is balanced, and large handles provided for easy use by either two or three officers. The X10 is manufactured from heavy gauge aluminum with a powder coat finish. The cylinder cradle is specially designed to provide protection in case the X10 must be dropped in an emergency.
Purpose	The X-10 is designed for operation within a jail cell or other small, enclosed area. The purpose is to convince a barricaded inmate to peacefully exit the cell without having to send officers into the cell. If officers are required to forcibly enter the cell, injuries to officers and the inmate often occur. The X-10 is used to clear doorway barricade(s) and inject an amount of pepper spray. Once confronted by the pepper spray, the inmate will usually come to the door to be cuffed and exit the cell. The spray of the X-10 is a series of 15 mist-like streams located in a semicircle around the end of the X-10 probe and one stream going directly forward. While the spray is not directly aimed at the combatant, the recommended minimum spray distance to the subject is two feet.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used in the Detentions Services Bureau
Costs	Initial Cost: X1-10 OC Extension Device with canister and refill kit - \$1,964.00 Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2014 (Dates vary due to re-occurring purchase) How was it Bought: Donated by the Honorary Deputy Sheriff Association
Required Training	2 hours - X10 operator course
Authority for Authorized Use	Sheriff's Use of Force Policy Detention P&P sections I.85 and I.89

<i>X10 SW Hand-Held Sprayer</i>	
Quantity	6
Capability	A tool to introduce O.C. irritant to small openings for cell extractions or to deliver to O.C. irritant to assaultive behavior groups and or imminent threats

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Life Span	Limited manufacturer warranty 90 days after shipment. These were purchased 2014 according to invoice.
Manufacturer's Desc	The X-10SW provides the ability to utilize the X-10C Chemical Cylinder with a hand-held sprayer. The X-10SW has a pressure washer gun-grip handle with replaceable nozzle spray tip. The gun grip handle is furnished with a one-piece high-pressure hose and fittings to match the X-10C Chemical Cylinder. High pressure swivel fittings allow easy wand movement and either right- or left-hand operation. All X-10C safety features are retained. There is only one releasable connector that attaches to the X-10C Chemical Cylinder. The X-10SW includes a safety chain to retain the high-pressure hose should the connector become disconnected under pressure. The X-10C Chemical Cylinder can be conveniently carried in a washable backpack carrier. The X-10C is easily removed from the carrier for refilling.
Purpose	The X-10SW is a hand-held pistol grip sprayer that utilizes the same solution and pressure cylinder as the X-10. The X-10SW can be used directly as a pistol with several different replaceable tips as well as with extension hoses. The X-10SW is a wide-angle sprayer that is designed to deliver the pepper spray solution over a wide area to saturate the combatant and gain rapid compliance. As such, shooting directly at the head/face area is not necessary and is not recommended at distances less than 10 feet. Under worse case conditions, when the hand-held sprayer is utilized with a straight tip, the recommended minimum spray distance to the subject is four feet.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used in the Detentions Services Bureau
Costs	Initial Cost: X-10SW Hand-held Spray Wand with canister and refill kit - \$1,100.00 Re-Occurring Costs: \$0 Maintenance Costs: None Year Obtained: 2014 (Dates vary due to re-occurring purchase) How was it Bought: Donated by the Honorary Deputy Sheriff Association
Required Training	2 hours - X10 operator course
Authority for Authorized Use	Sheriff's Use of Force Policy Detention P&P sections I.85 and I.89

6.4 Specialty (Less Lethal) Munitions

	<i>Stinger 60-Caliber Rubber Balls w/ Safety Clip</i>
Quantity	130
Capability	Light sound diversionary device which expels 60-caliber rubber pellets.
Life Span	5-year manufacturer warranty
Manufacturer's Desc	The Stinger Grenade with safety clip is a maximum effect device that

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	delivers three stimuli for psychological effects: rubber pellets, light, and sound. The Stinger Grenade is most widely used as a crowd management tool.
Purpose	To safely resolve critical situations such as violent civil unrest, high-risk tactical operations, or critical incident inside the detention facilities
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail and the Detentions Services Bureau
Costs	Initial Cost: \$45.79 each Re-Occurring Costs: As needed Maintenance Costs: None Year Obtained: 2019 (Dates vary due to re-occurring purchase) How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy 4 hour – Rubber Ball grenade user course (DSB)
Authority for Authorized Use	Sheriff's P&P sections 6.111 and 9.4 Sheriff's Use of Force Policy Detention P&P I.85 and I.89

6.5 Flashbang device

	<i>7290M – Mini-Bang – Steel body</i>
Quantity	100
Capability	This intermediate less lethal specialty munition allows for light sound diversion during tactical operations which allows for tactical advantage during high-risk situations.
Life Span	5-year manufacturer warranty
Manufacturer's Desc	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 175db output of the 7290 and produces 6-8 million candelas 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.
Purpose	To safely resolve critical situations during high-risk tactical operations.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$430.00 per case Re-Occurring Costs: \$860.00 Maintenance Costs: \$0 Year Obtained: 2018-2020 (Dates vary due to re-occurring purchase)

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	How was it Bought: Sheriff's Department funds
Required Training	2 week - Sheriff's Basic SWAT Academy
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.111 and 9.4 Sheriff's Use of Force Policy

7.0 40MM LAUNCHERS/LESS LETHAL BEAN BAG SHOTGUN AND MUNITIONS

7.1 40MM launchers

<i>40 MM Launcher- LMT</i>	
Description	40LMTS- 40 mm LMT Tactical Single Launcher
Quantity	44
Capability	Deploying 40mm less lethal impact projectiles Deploying 40mm chemical agent (CS) barricade penetrating (DefTech 2262) rounds
Life Span	N/A
Manufacturer's Desc	Will fire standard 40mm less lethal ammunition up to 4.8 inches in cartridge length. This product will not fire 40mm High Velocity HE (high explosive) ammunition
Purpose	Deploying 40mm less lethal impact munitions Deploying 40mm chemical agent (CS) barricade penetrating (DefTech 2262) rounds.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail and the Detentions Services Bureau
Costs	Initial Cost: \$1160.79 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: Approx. 2016 How it was bought: Sheriff's Department Funds
Required Training	2 week - Sheriff's Basic SWAT Academy or 4 hours - Detentions 40MM specialty munitions launcher course
Authority for Authorized Use	Sheriff's P&P sections 6.111 and 9.4 Sheriff's Use of Force Policy Detention P&P I.85 and I.89

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40MM Launcher- Penn Arms	
Description	GL1-Compact: Compact Folding Stock and Grip Quad Rail
Quantity	2
Capability	Deploying 40mm less lethal impact munitions. Deploying 40mm chemical agent barricade penetrating (ferret) rounds
Life Span	Indefinitely
Manufacturer's Desc	40mm compact single-shot break-open frame launcher with a rifled barrel and folding stock
Purpose	Used exclusively for deploying 40mm chemical agent (CS) barricade penetrating (DefTech 2262) rounds.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail and the Detentions Services Bureau
Costs	Initial Cost: \$1062 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: Estimated pre-2010 How it was bought: Sheriff's Department Funds
Required Training	2 week - Sheriff's Basic SWAT Academy or 4 hour - Detentions 40MM specialty munitions launcher course
Authority for Authorized Use	Sheriff's P&P sections 6.111 and 9.4 Sheriff's Use of Force Policy Detention P&P I.85 and I.89

40MM Launcher- Penn Arms	
Description	GL1-40: Single Launcher Fixed Stock Rail Combo
Quantity	10
Capability	Deploying 40mm less lethal impact projectiles. Deploying 40mm chemical agent (CS) barricade penetrating (DefTech 2262) rounds
Life Span	Indefinitely
Manufacturer's Desc	40mm single-shot break-open frame launcher with a rifled barrel, fixed stock, and combo rail.
Purpose	Deploying 40mm chemical agent (CS) barricade penetrating (DefTech 2262) rounds. Deploying 40mm Exact Impact munitions at suspect(s) displaying assaultive behavior. Used for disabling cameras and/or lights during tactical operations
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail and the Detentions Services Bureau
Costs	Initial Cost: \$1328 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: Estimated pre-2010

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	How it was bought: Sheriff's Department Funds
Required Training	2 week - Sheriff's Basic SWAT Academy or 4 hour - Detentions 40MM specialty munitions launcher course
Authority for Authorized Use	Sheriff's P&P sections 6.111 and 9.4 Sheriff's Use of Force Policy Detention P&P I.85 and I.89

<i>40MM Launcher - Defense Technology</i>	
Description	Single Launcher Fixed Stock Rail Combo
Quantity	48
Capability	Deploying 40mm less lethal impact projectiles. Deploying 40mm chemical agent (CS) barricade penetrating (DefTech 2262) rounds
Life Span	Indefinitely
Manufacturer's Desc	40mm single-shot break-open frame launcher with a rifled barrel, fixed stock, and combo rail.
Purpose	Deploying 40mm chemical agent (CS) barricade penetrating (DefTech 2262) rounds. Deploying 40mm Exact Impact munitions at suspect(s) displaying assaultive behavior. Used for disabling cameras and/or lights during tactical operations
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail and the Detentions Services Bureau
Costs	Initial Cost: \$850 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: Estimated pre-2010 How it was bought: Sheriff's Department Funds
Required Training	2 week - Sheriff's Basic SWAT Academy or 4 hour - Detentions 40MM specialty munitions launcher course
Authority for Authorized Use	Sheriff's P&P sections 6.111 and 9.4 Sheriff's Use of Force Policy Detention P&P I.85 and I.89

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<i>40MM Launcher – Penn Arms PGL65-40</i>	
Description	Pump-Action Launcher Fixed Stock Rail Combo
Quantity	39
Capability	Deploying 40mm less lethal impact projectiles. Deploying 40mm chemical agent (CS) barricade penetrating (DefTech 2262) rounds
Life Span	Indefinitely
Manufacturer's Desc	A 40mm pump-action advance magazine drum launcher with a fixed stock and combo rail. It has a six-shot capacity and rifled barrel.
Purpose	Deploying 40mm chemical agent (CS) barricade penetrating (DefTech 2262) rounds. Deploying 40mm Exact Impact munitions at suspect(s) displaying assaultive behavior. Used for disabling cameras and/or lights during tactical operations
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail and the Detentions Services Bureau
Costs	Initial Cost: \$2600 Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: Estimated pre-2010 How it was bought: Sheriff's Department Funds
Required Training	2 week - Sheriff's Basic SWAT Academy or 4 hours - Detentions 40MM specialty munitions launcher course
Authority for Authorized Use	Sheriff's P&P sections 6.111 and 9.4 Sheriff's Use of Force Policy Detention P&P I.85 and I.89

7.2 Chemical agent launching platform (SED specific)

<i>Chemical Agent Launching Platform-Remington/CSI</i>	
Description	Remington 870 12-gauge pump action shotgun w/CSI LC5 Launching Cup/model 2600 launching cartridge and CSI 5230B Baffled Riot CS grenade
Quantity	4
Capability	Launching chemical agent (CSI 5230B) CS canisters
Life Span	Indefinitely
Manufacturer's Desc	The cups can be attached to virtually any 12ga shotgun and the munition launched with the model 2600 launching cartridge.
Purpose	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 20 yards.
Authorized Usage	De-escalation tool not likely to inflict serious injury

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	Used by the Special Enforcement Detail
Costs	Initial Cost: \$705 each Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: Estimated pre-2000 How it was bought: Sheriff's Department Funds
Required Training	2 week - Sheriff's Basic SWAT Academy 4-hour Semi-annual refresher training
Authority for Authorized Use	Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

7.3 Less Lethal shotgun (SED specific)

<i>12 Gauge Less Lethal Impact Munitions Launcher- Remington</i>	
Description	Remington Pump Action, 12-gauge shotgun
Quantity	36
Capability	Deploying 12 gauge less lethal flexible baton munitions (CSI-2581 Super sock)
Life Span	Indefinitely
Manufacturer's Desc	The 14" 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.
Purpose	Deploying 12 gauge less lethal flexible baton (CSI-2581 Super sock) as impact munitions Used for disabling cameras and/or lights during tactical operations Used for breaching windows
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$500 each Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: Estimated pre-2000 How was it Bought: Sheriff's Department funds
Required Training	32 hours – Sheriff's Department Less Lethal Course (Not CA POST) Annual qualifications
Authority for Authorized Use	Sheriff's P&P 6.111 and 9.4 Sheriff's Use of Force Policy Detention P&P I.85 and I.89

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7.4 Less Lethal shotgun (Patrol/Courts/Detentions)

<i>12 Gauge Less Lethal Impact Munitions Launcher- Remington</i>	
Description	Remington Pump Action, 12-gauge shotgun
Quantity	398
Capability	Deploying 12 gauge less lethal flexible baton munitions (CSI-2581 Super sock)
Life Span	N/A
Manufacturer's Desc	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.
Purpose	Deploying 12 gauge less lethal flexible baton (CSI-2581 Super sock) as impact munitions
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail, Patrol, Detentions and Court Services Bureau
Costs	Initial Cost: \$500 each Re-Occurring Costs: \$0 Maintenance Costs: As needed Year Obtained: Estimated pre-2000 How was it Bought: Sheriff's Department funds
Required Training	32 hour – Sheriff's Department Less Lethal Course (Not CA POST) Annual qualifications
Authority for Authorized Use	Sheriff's Use of Force Policy Detention P&P I.85 and I.89

7.5 40MM munitions

Description	Ferret 40mm <i>Liquid</i> Barricade Penetrator Round, CS
Quantity	3 cases - 24 per case
Capability	40mm launcher
Life Span	5-year manufacturer warranty
Manufacturer's Desc	<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</p>

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	minimalize the risks to all parties through pain compliance, temporary discomfort and/or incapacitation of potentially violent or dangerous subjects.
Purpose	To safely resolve critical situations such as high-risk tactical operations. These are necessary because there is no reasonable alternative that can achieve the same objective of officer and civilian safety/will safeguard the public's welfare, safety, civil rights, and civil liberties.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail
Costs	Initial Cost: \$535.00 per case Re-Occurring Costs: \$2,140.00 Maintenance Costs: None Year Obtained: 2020 (Dates vary due to re-occurring purchase) How was it Bought: Sheriff's Department funds
Required Training	N/A
Authority for Authorized Use	Mission based under the authority of California Penal Code section 1534(a) Sheriff's P&P sections 6.66, 6.111 and 9.4 Sheriff's Use of Force Policy

Description	<i>Exact Impact LE 40mm Extended Range Sponge Round</i>
Quantity	6 cases - 50 per case
Capability	This intermediate less lethal specialty munition allows for direct impact from a minimum range of 33ft./10m out to a maximum effective range of 230ft / 70m.
Life Span	5-year manufacturer warranty
Manufacturer's Desc	The Exact Impact 40mm 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 40mm 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.
Purpose	To safely resolve critical situations such as crowd control during riotous situations and high-risk tactical operations. These are necessary because there is no reasonable alternative that can achieve the same objective of officer and civilian safety/will safeguard the public's welfare, safety, civil rights, and civil liberties.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail and the Detentions Services Bureau
Costs	Initial Cost: \$1,090.00 per case Re-Occurring Costs: \$4,360.00

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	Maintenance Costs: None Year Obtained: 2020 (Dates vary due to re-occurring purchase) How was it Bought: Sheriff's Department funds
Required Training	N/A
Authority for Authorized Use	Sheriff's P&P sections 6.111 and 9.4 Sheriff's Use of Force Policy Detention P&P I.85 and I.89

Description	<i>Exact Impact 40mm Standard Range Sponge Round</i>
Quantity	2,167
Capability	This intermediate less lethal specialty munition allows for direct impact from a minimum range of 5ft./1.5m out to a maximum effective range of 131ft / 40m.
Life Span	5-year manufacturer warranty
Manufacturer's Desc	The Exact Impact 40mm 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 40mm 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.
Purpose	To safely resolve critical situations such as crowd control during riotous situations and high-risk tactical operations. These are necessary because there is no reasonable alternative that can achieve the same objective of officer and civilian safety/will safeguard the public's welfare, safety, civil rights, and civil liberties.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail and the Detentions Services Bureau
Costs	Initial Cost: \$19.29 each Re-Occurring Costs: \$8,000.00 Maintenance Costs: None. Year Obtained: 2020 (Dates vary due to re-occurring purchase) How was it Bought: Department funds
Required Training	N/A
Authority for Authorized Use	Sheriff's P&P sections 6.111 and 9.4 Sheriff's Use of Force Policy Detention P&P I.85 and I.89

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7.6 Less Lethal Bean Bag shotgun munitions

Description	2581 – 12Ga. Super-Sock Bean Bag, Point Control Impact Munition
Quantity	19,060 rounds
Capability	This intermediate less lethal specialty munition allows for direct impact from a minimum range of 0ft. out to a maximum effective range of 75ft.
Life Span	5-year manufacturer warranty
Manufacturer's Desc	The Model 2581 Super-Sock is in its deployed state immediately upon exiting the barrel. It does not require a minimum range to “unfold” or “stabilize.” The Super-Sock® is an aerodynamic projectile and its accuracy is relative to the shotgun, barrel length, environmental conditions, and the operator. The Super-Sock is first in its class providing the point control accuracy and consistent energy to momentarily incapacitate violent, non-compliant subjects. Effective range is 75ft.
Purpose	To safely resolve critical situations such as crowd control during riotous situations and high-risk tactical operations. These are necessary because there is no reasonable alternative that can achieve the same objective of officer and civilian safety/will safeguard the public's welfare, safety, civil rights, and civil liberties.
Authorized Usage	De-escalation tool not likely to inflict serious injury Used by the Special Enforcement Detail, Patrol, Detentions and Court Services Bureau
Costs	Initial Cost: \$23.75 per box of 5 Re-Occurring Costs: \$64,000.00 Maintenance Costs: None. Year Obtained: Varies How was it Bought: Sheriff's Department funds
Required Training	N/A
Authority for Authorized Use	Sheriff's P&P sections 6.111 and 9.4 Sheriff's Use of Force Policy Detention P&P I.85 and I.89

8.0 Long Range Acoustic Devise (LRAD)

LRAD 100X	
Description	LRAD (Long Range Acoustic Device) 100X
Quantity	2
Capability	Used to send messages over long range
Life Span	10 years
Manufacturer's Desc	An LRAD is a loudspeaker-like device that emits a focused beam of sound.

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Purpose	Device used for public announcements.
Authorized Usage	Any critical situation to make public announcements: Wildland fire evacuations, civil unrest, search and rescue, public safety.
Costs	Initial Cost: \$13,990.00 Re-Occurring Costs: None Maintenance Costs: None Year Obtained: 2014-2015 How was it Bought: Homeland Security grant
Required Training	None
Authority for Authorized Use	Sheriff's P&P section 9.1 Sheriff's Emergency Operations Manual section 9.6.5

LRAD 500X	
Description	LRAD (Long Range Acoustic Device) 500X
Quantity	1
Capability	Used to send messages over long range
Life Span	10 years
Manufacturer's Desc	An LRAD is a loudspeaker-like device that emits a focused beam of sound.
Purpose	Large, fixed device used for public announcements.
Authorized Usage	Any critical situation to make public announcements: Wildland fire evacuations, civil unrest, search and rescue, public safety.
Costs	Initial Cost: \$3,105.00 Re-Occurring Costs: None Maintenance Costs: None Year Obtained: 2012 How was it Bought: Homeland Security grant
Required Training	Vendor training. Used by Emergency Planning Staff or as designated by Incident Commander,
Authority for Authorized Use	Sheriff's P&P section 9.1 Sheriff's Emergency Operations Manual section 9.6.5
9.0 COMMAND AND CONTROL VEHICLES	

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Mobile Command 1 (MC1)	
Description	2013 40-foot Command Trailer
Quantity	1
Capability	Command and control vehicle
Life Span	20 years +
Manufacturer's Desc	Braun Northwest Command trailer
Purpose	Regional asset. Provides command vehicle response to critical incidents
Authorized Usage	To provide a command working platform
Costs	Initial Cost: \$400,403 Maintenance costs: \$5000 per year Year Obtained: 2013 Funding: 2010 UASI Grant
Required Training	Class A California Driver's License
Authority for Authorized Use	Sheriff's P&P Section 5.2

Mobile Command 2, 3, 4, 5	
Description	Motorized Command Vehicle
Quantity	4
Capability	Command and control vehicle
Life Span	20+ years
Manufacturer's Desc	2006 Dodge Industries Command Center
Purpose	Regional asset. Provides command vehicle response to critical incidents
Authorized Usage	To provide a command working platform
Costs	Original cost \$150,459.95 Maintenance cost: \$8,000 per year Year Obtained: 2006 Funded by: UASI Grant
Required Training	Class C California Driver's License
Authority for Authorized Use	Sheriff's P&P section 5.2

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Echo 3	
Description	Motorized Command Vehicle
Quantity	1
Capability	Command and control vehicle
Life Span	20+ years
Manufacturer's Desc.	International 4400 Command Center
Purpose	Regional asset. Provides command vehicle response to critical incidents
Authorized Usage	To provide a mobile command working platform
Costs	Original Cost: \$174,536.41 Maintenance Cost: \$5000 per year Year Obtained: 2002 Funded: County General fund
Required Training	Class C California Driver's License
Authority for Authorized Use	Sheriff's P&P section 5.2

10.0 Annual Ongoing Costs

Note: Not every item listed in this document will involve a yearly re-occurring cost. Some items require repairs or maintenance only when needed. Some listed costs are estimates only and could vary.

10.1 - Unmanned Aerial System (UAS)/Interior Drone/Robots

Maintenance costs could arise to repair or replace broken/damaged or worn-out items. Sheriff's Department budgeted funds cover these costs.

10.2 - Armored personnel carriers/Multipurpose wheeled Vehicles

Ongoing performance maintenance is required for the vehicles mentioned in this policy

10.3 - Firearms/ammunition of .50 caliber or greater

Maintenance costs could arise to repair or replace broken/damaged or worn-out items. Annual reoccurring purchases of consumable items used in training, during critical incidents or tactical operations. Sheriff's Department budgeted funds cover these costs.

10.4 - Specialized firearms/ammunition less than .50 caliber

Maintenance costs could arise to repair or replace broken/damaged or worn-out items. Annual reoccurring purchases of consumable items used in training, during critical incidents or tactical operations. Sheriff's Department budgeted funds cover these costs.

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10.5 - Chemical Agent, Pepper Spray, Oleoresin filled projectiles (PepperBalls), Specialty Less Lethal Munitions, Flashbang grenades

Annual reoccurring purchases of consumable items used in training, during critical incidents or tactical operations. Sheriff's Department budgeted funds cover these costs.

10.6 - 40mm launchers, Less Lethal Bean Bag shotgun and munitions

Maintenance costs could arise to repair or replace broken/damaged or worn-out items. Annual reoccurring purchases of consumable items used in training, during critical incidents or tactical operations. Sheriff's Department budgeted funds cover these costs.

11.0 MILITARY EQUIPMENT USE DURING MUTUAL AID EVENTS

The San Diego County Sheriff's Department (Sheriff's Department) is the mutual aid coordinator for San Diego County. It is common practice for other local, state, and federal law enforcement agencies to request resources and military equipment from the Department for incidents including but not limited to, search warrants, barricaded suspects, large scale crime scenes, search and rescue operations, protests, riots, and other emergency operations conducted to restore public safety. Likewise, the Sheriff's Department may temporarily use or borrow equipment from other law local, state, and federal law enforcement agencies for incidents including but not limited to those already listed above.

The collaboration with other law enforcement agencies regarding the sharing of military equipment, which has already been approved by each respective governing body, is often necessary to ensure public safety, when all other resources or alternatives have failed or cannot achieve the same objective. The Sheriff's Department may collaborate with another law enforcement agency in the deployment or other use of military equipment listed in the Sheriff's Department's or aided agency's military equipment use policy within San Diego County. All borrowed military equipment from other law enforcement agencies, shall be used in accordance with Departmental policy, applicable laws and only by individuals with proper training.

12.0 INQUIRY/COMPLAINT PROCESS

Inquires made be made in the following ways:

- In person at any Sheriff's headquarters
- By telephone to Sheriff's Emergency Services (619) 956-4900
- E-mail the [Webmaster](#). Your comments will be forwarded to the appropriate staff.

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- By mail:
San Diego County Sheriff's Department
PO Box 939062
San Diego, CA 92193

General questions or concerns will be routed to the Special Enforcement Detail (SED) Lieutenant for response within 30 days. The SED Lieutenant shall track all inquiries and responses for inclusion in the Military equipment Use Report.

Complaints

If you wish to make an allegation of misconduct against a member of the Sheriff's Department related to the use of military equipment, you may register your complaint the following ways:

- In person at any [Sheriff's facility](#)
- By telephone or mail to the Sheriff's Internal Affairs Unit - (858) 974-2065
San Diego County Sheriff's Department
Internal Affairs Unit
PO Box 939062
San Diego, CA 92193
- Online through our [Submit a Complaint Form](#)
- For matters involving sworn deputies or custodial officers employed by the Sheriff's Department, complainants have the option to contact the [Citizens' Law Enforcement Review Board](#) - (619) 238-6776
555 W. Beech St., Suite 505
San Diego, CA 92101-2940

Formal complaints, warranting further investigation, will be routed to Internal Affairs for review and follow-up, in accordance with statute and policy. The Department will investigate any noncompliance with the Military Equipment Use Policy in accordance with section 832.5 of the California Penal Code, which sets mandatory provisions for complaints made on peace officers as defined by California Penal Code 832 and custodial officers as defined by section 831.5 PC.

The SED Lieutenant in collaboration with the Division of Inspectional Services will conduct annual inspection to ensure the Military Equipment Use Policy is followed and the items listed in the Military Equipment Report are utilized within policy and in accordance with applicable laws. Any violation of policy or law will be investigated accordingly and reported in the annual Military Equipment Use Report.

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13.0 AB 481 MILITARY EQUIPMENT USE – ADDITIONAL REQUIRED TRAINING

UAS TRAINING (FAA and Department Specific)

Approximately 15 hours of on-line self-passed Ground School. Each pilot must complete the King Schools Commercial Drone Pilot Ground School. This is an online school comprised of written and video instruction on FAA Part 107 Regulations, Aerodynamics, Sectional Charts, Airspace, Weather, Communications and Flight Operations.

On-Line test – Remote Pilot Certificate administered by the FAA.

Three Day (30 hours) – Sheriff's UAS Academy (NOT POST).

Day one	classroom lecture, FAA regulations and Department P&P, deployment criteria
Day two	practical application, basic flight maneuvers
Day three	Practical application of flight maneuverers, scenario training and testing.

Each month, four opportunities for ongoing training are presented. To remain current, a pilot must attend at least one of those monthly training sessions. Each training session offers the pilots an opportunity to practice previously learned skills as well an opportunity to learn new, more advanced levels of flight.

8 HOURS – M240 OPERATOR COURSE (NOT CA POST)

1 hour	classroom lecture
2 hours	bipod shoot
1 hour	weapons maintenance
1 hour	Bearcat orientation & turret manipulation
2 hours	Bearcat shoot
1 hour	weapons maintenance

24 HOURS - SHERIFF'S PATROL RIFLE COURSE (CA POST)

Day one	Classroom lecturing, rifle manipulation, and rifle zeroing
Day two	Rifle zeroing, rifle manipulation, positional shooting
Day three	Low light/no light shooting, barricade shooting, 200-yard target shooting, POST testing and department qualifications

40 HOURS - PRECISION RIFLE COURSE (NOT CA POST)

Day one	Classroom lecture, review nomenclature, equipment, scope function, marksmanship. Practical application on dry firing, loading/unloading.
Day two	Shoot 2, practical application on malfunctions and weapon manipulation. Classroom lecture on ballistics, range estimations and Intermediate

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	barriers
Day three	Positional and tripod shooting, practice qualification, low/no light shooting
Day four	Sniper qualifications, rural and urban tactics, scenario training, moving targets
Day five	Sniper/Spotter communications, Long Range shooting, final exercise, written test

8 HOURS - SHERIFF'S MP5 OPERATOR COURSE (NOT CA POST)

1 hour classroom lecture overview
1 hour nomenclature review
1 hour disassembly/Assembly
1 hour maintenance
4 hours practical application on the range
Single fire double tabs
Auto double tabs
Move and shoot
Qualifications

32 HOURS – MECHANICAL BREACHING COURSE (NOT CA POST)

Day one	Classroom lecture, Method of deployment/manual breaching, practical application
Day two	Classroom lecture, thermal/mechanical breaching, practical application
Day three	Classroom lecture, ballistic/hydraulic breaching, practical application
Day four	Written test, practical application test

6 DAY (48 HOURS) EXPLOSIVE BREACHING COURSE (NOT CA POST)

Day one	Classroom lecture on explosive breaching/principals
Day two	Written exam, classroom lecture on explosives - responsibilities and documentation
Day three	Classroom lecture on explosive safety/handling/storage/transportation, practical application on the range
Day four	Practical application on the range/charge calculations
Day five	Classroom lecture, written test
Day six	Practical application on range, charge construction/breaching methods

150 HOURS, 10 DAY - SHERIFF'S BASIC SWAT ACADEMY (NOT CA POST)

6 hours specific to chemical agents (lecture/practical application)
2.5 hours specific to flash bangs (lecture/practical application)
1.5 hours specific to 40mm (lecture/practical application)
20 hours of scenario training

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32 HOURS - SHERIFF'S LESS LETHAL COURSE (NOT CA POST)

Day one	Classroom lecture on TASER
Day two	TASER scenarios
Day three	Classroom lecture for Bean Bag shotgun and Pepper Ball, manipulation, department qualifications
Day four	TASER/Bean Bag/Pepper Ball training scenarios

4 HOUR - DETENTIONS 40MM SPECIALTY MUNITIONS LAUNCHER COURSE (NOT CA POST)

2 hours classroom lecture
2 hours practical application

4 HOUR – DETENTIONS RUBBER BALL GRANADE USER COURSE (NOT CA POST)

2 hours classroom lecture
2 hours practical application

40 HOURS - CHEMICAL AGENT INSTRUCTOR COURSE (CA POST)

Day 1	Classroom lecture - safety guidelines, current laws, use of force, methods of delivery, types of agent, POST Safety guidelines, Fit testing, APR Practical Application
Day 2	Classroom lecture - chemical agent munitions, launching systems, hand deployment, exposure, gas formulas, live munitions, OC/CS Combo exposures
Day 3	Tactics, techniques, chemical agents in crowd control,
Day 4	Chemical agent liability issues, live munitions, CS exposures, gas house 12-gauge ferret, 40mm and pocket tactical, vehicle deployments, storage and transportation
Day 5	Chemical Agent report writing, training exercises, equipment maintenance, written exam

2 HOURS – DETENTIONS X10 OPERATOR COURSE (NOT CA POST)

1 hour classroom lecture
1 hour operation and deployment

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14.0 Summary of how Military Equipment was used

14.1.1 - Unmanned Aerial System (UAS)

During this year, the Sheriff's Department used UAS's to assist with providing law enforcement personnel with an ariel view of crimes in progress, search and rescue operations, photo flights, special details, protests, warrant services and training operations.

14.1.3 and 14.1.4 – Interior Drone/Surveillance Robots

During this year, interior drones and surveillance robots were used by the Sheriff's Special Enforcement Detail during high-risk warrant services, tactical operations, and training operations. These remote piloted devices were used to inspect confined areas that were deemed too unsafe to for law enforcement personnel to inspect in person.

14.1.5 – Bomb Squad Robots

During this year, Bomb Squad robots were used by the Sheriff's Bomb/Arson Unit during investigations of suspicious devices and explosive ordinances, high-risk warrant services, tactical operations, and training operations. These remote piloted devices were used to inspect confined areas and suspicious devices that were deemed too unsafe to for law enforcement personnel to inspect in person.

14.2 – Armored Personnel Carriers/Multipurpose Wheeled Vehicles

During this year, the Sheriff's Department's Special Enforcement Detail and Bomb Arson Unit used Armored Personnel Carriers during high-risk warrant services, tactical operations, training operations, rescue operations, dignitary protection details and recruiting/community relations events.

14.3 – Firearms/Ammunition of .50 Caliber or Greater

The Sheriff's Department did not use Firearms or Ammunition of .50 Caliber or Greater this year.

14.4 – Specialized Firearms/Ammunition Less Than .50 Caliber

During this year, the Sheriff's Department used specialized firearms during high-risk critical incidents, warrant services and training operations. The use of specialized firearms were to defend against an imminent threat of serious bodily injury or death.

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The Sheriff's Department did not use specialized ammunition less than .50 Caliber this year.

14.5 – Explosive Breaching Rounds and Explosive Breaching Apparatus

This year the Sheriff's Department used Explosive Breaching Apparatus during high-risk warrant services and training exercises only. This equipment was used to gain entry into areas that were deemed too unsafe for personnel to use traditional handheld breaching equipment.

14.6 - Chemical Agent, Pepper Spray, Oleoresin filled projectiles (Pepper Balls), Specialty Less Lethal Munitions, Flashbang grenades

This year the Sheriff's Department used Chemical Agents, Pepper Spray, Oleoresin filled projectiles (pepper balls), Specialty Less Lethal Munitions and Flashbang grenades as de-escalation tools to safely resolve critical incidents.

14.7 - 40mm launchers, Less Lethal Bean Bag shotgun and munitions

This year the Sheriff's Department used 40mm launchers, Less Lethal Bean Bag shotguns and ammunition as de-escalation tools to safely resolve critical incidents. These items were also used during training exercises.

14.8 – Long Range Acoustic Device (LRAD)

The Sheriff's Department used LRAD's during high-risk warrant services. The LRAD was used as a voice amplification device, similar to a megaphone to assist with negotiation and communications.

14.9 – Command and Control Vehicles

During this year, Command and Control Vehicles were used by the Sheriff's Department for search and rescue operations, tactical operations, investigative operations and driving under the influence checkpoint details. This equipment was used as mobile command posts to help facilitate operations during critical incidents.

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15.0 Summary of Complaints or Concerns

15.1 The Special Enforcement Detail (SED) Lieutenant collaborated with the San Diego Sheriff's Department Internal Affairs Unit and Webmaster to determine if any complaints had been filed regarding the use of Military Equipment. The Sheriff's Department has not received any complaints or concerns regarding any of the Military Equipment.

16.0 Internal Audits or Violations

16.1 The Special Enforcement Detail (SED) Lieutenant collaborated with the San Diego Sheriff's Department Division of Inspectional Services Unit and conducted an annual inventory and audit regarding the use of Military Equipment. There were no violations and the items on the Military Use Report are being used within policy and in accordance with all laws.

17.0 Total Annual Costs

17.1.1 - Unmanned Aerial System (UAS)

Category	Cost	Notes
Acquisition	\$23,220	Two UAS's purchased this year.
Personnel	Not tracked by equipment	Personnel operate this equipment during normal duties.
Training	\$1,500	Fees for five new pilots trained this year.
Transportation	Not tracked by equipment	Personnel operate this equipment during normal duties.
Maintenance	\$3,000	Replacement parts for equipment.
Storage	Not tracked by equipment	Personnel operate this equipment during normal duties. The equipment is stored as part of normal Department operations.
Upgrade	\$0	No upgrades made.
Other ongoing costs	\$0	Maintenance and repairs as needed. No other known ongoing costs associated with this equipment.
Funding source for next year		Sheriff's Department Funding
<u>Total Annual Cost</u>	\$27,720	

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17.1.3 and 17.1.4 – Interior Drone/Surveillance Robots

Category	Cost	Notes
Acquisition	\$10,629	Two interior drones purchased this year.
Personnel	Not tracked by equipment	Personnel operate this equipment during normal duties.
Training	\$5,000	Personnel attended training from a private company.
Transportation	Not tracked by equipment	Personnel operate this equipment during normal duties.
Maintenance	\$1,194	Replacement parts for equipment.
Storage	Not tracked by equipment	Personnel operate this equipment during normal duties. The equipment is stored as part of normal Department operations.
Upgrade	\$0	No upgrades made.
Other ongoing costs	\$0	Maintenance and repairs as needed. No other known ongoing costs associated with this equipment.
Funding source for next year		Sheriff's Department Funding
<u>Total Annual Cost</u>	\$16,823	

17.1.5 – Bomb Squad Robots

Category	Cost	Notes
Acquisition	\$431,632.70	One robot purchased in 2022. UASI Grant.
Personnel	Not tracked by equipment	Personnel operate this equipment during normal duties.
Training	Not tracked by equipment	Personnel attended training during normal duties.
Transportation	Not tracked by equipment	Personnel operate this equipment during normal duties.
Maintenance	\$5,677	Maintenance on one robot. Sheriff's Funding.
Storage	Not tracked by equipment	Personnel operate this equipment during normal duties. The equipment is stored as part of normal Department operations.
Upgrade	\$0	No upgrades made.
Other ongoing costs	\$0	Maintenance and repairs as needed. No other known ongoing costs associated with this equipment.
Funding source for next year		Sheriff's Department Funding
<u>Total Annual Cost</u>	\$437,309.70	

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17.2 – Armored Personnel Carriers/Multipurpose Wheeled Vehicles

Category	Cost	Notes
Acquisition	\$0	Equipment purchased in prior years.
Personnel	Not tracked by equipment	Personnel operate this equipment during normal duties.
Training	Not tracked by equipment	Personnel attended training during normal duties.
Transportation	Not tracked by equipment	Personnel operate this equipment during normal duties.
Maintenance	\$16,396	Includes repairs, labor, parts, equipment, and fuel.
Storage	Not tracked by equipment	Personnel operate this equipment during normal duties. The equipment is stored as part of normal Department operations.
Upgrade	\$0	No upgrades made.
Other ongoing costs	\$TBD	Maintenance, repairs, and fuel as needed. No other known ongoing costs associated with this equipment.
Funding source for next year		Sheriff's Department Funding
<u>Total Annual Cost</u>	\$16,396	

17.3 – Firearms/Ammunition of .50 Caliber or Greater

Category	Cost	Notes
Acquisition	\$0	Equipment purchased in prior years.
Personnel	Not tracked by equipment	Personnel operate this equipment during normal duties.
Training	Not tracked by equipment	Personnel attended training during normal duties.
Transportation	Not tracked by equipment	Personnel operate this equipment during normal duties.
Maintenance	\$0	No maintenance required this year.
Storage	Not tracked by equipment	Personnel operate this equipment during normal duties. The equipment is stored as part of normal Department operations.
Upgrade	\$0	No upgrades made.
Other ongoing costs	\$0	Maintenance, repairs, and fuel as needed. No other known ongoing costs associated with this equipment.

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Funding source for next year		Sheriff's Department Funding
<u>Total Annual Cost</u>	\$0	

17.4 – Specialized Firearms/Ammunition Less Than .50 Caliber

Category	Cost	Notes
Acquisition	\$37,214	Purchased two lower receivers and ammunition.
Personnel	Not tracked by equipment	Personnel operate this equipment during normal duties.
Training	Not tracked by equipment	Personnel attended training during normal duties.
Transportation	Not tracked by equipment	Personnel operate this equipment during normal duties.
Maintenance	Not tracked by equipment	Personnel perform maintenance as needed during normal duties.
Storage	Not tracked by equipment	Personnel operate this equipment during normal duties. The equipment is stored as part of normal Department operations.
Upgrade	\$0	No upgrades made.
Other ongoing costs	\$0	None.
Funding source for next year		Sheriff's Department Funding
<u>Total Annual Cost</u>	\$37,214	

17.5 – Explosive Breaching Rounds and Explosive Breaching Apparatus

Category	Cost	Notes
Acquisition	\$4,000	This is considered consumable equipment and is used throughout the year as needed. .
Personnel	Not tracked by equipment	Personnel operate this equipment during normal duties.
Training	Not tracked by equipment	Personnel attended training during normal duties.
Transportation	Not tracked by equipment	Personnel operate this equipment during normal duties.
Maintenance	Not tracked by equipment	N/A
Storage	Not tracked by equipment	Personnel operate this equipment during normal duties. The equipment is stored as part of normal Department

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		operations.
Upgrade	\$0	No upgrades made.
Other ongoing costs	\$0	None.
Funding source for next year		Sheriff's Department Funding
<u>Total Annual Cost</u>	\$4,000	

17.6 - Chemical Agent, Pepper Spray, Oleoresin filled projectiles (Pepper Balls), Specialty Less Lethal Munitions, Flashbang grenades

Category	Cost	Notes
Acquisition	\$11,437	Purchased 60 flashbang grenades and Pepper Balls
Personnel	Not tracked by equipment	Personnel operate this equipment during normal duties.
Training	Not tracked by equipment	Personnel attended training during normal duties.
Transportation	Not tracked by equipment	Personnel operate this equipment during normal duties.
Maintenance	Not tracked by equipment	No maintenance needed.
Storage	Not tracked by equipment	Personnel operate this equipment during normal duties. The equipment is stored as part of normal Department operations.
Upgrade	\$0	No upgrades made.
Other ongoing costs	\$0	Consumable items. Replaced as needed.
Funding source for next year		Sheriff's Department Funding
<u>Total Annual Cost</u>	\$11,437	

17.7 - 40mm launchers, Less Lethal Bean Bag shotgun and munitions

Category	Cost	Notes
Acquisition	\$110,872	Purchased, 40mm launchers, 40mm munitions, 12 gauge less lethal impact munitions.
Personnel	Not tracked by equipment	Personnel operate this equipment during normal duties.
Training	Not tracked by	Personnel attended training during normal duties.

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	equipment	
Transportation	Not tracked by equipment	Personnel operate this equipment during normal duties.
Maintenance	\$0	Maintenance conducted as part of normal duties.
Storage	Not tracked by equipment	Personnel operate this equipment during normal duties. The equipment is stored as part of normal Department operations.
Upgrade	\$0	No upgrades made.
Other ongoing costs	\$0	Consumable items. Replaced as necessary.
Funding source for next year		Sheriff's Department Funding
<u>Total Annual Cost</u>	\$110,872	

17.8 – Long Range Acoustic Device (LRAD)

Category	Cost	Notes
Acquisition	\$0	Equipment purchased in prior years.
Personnel	Not tracked by equipment	Personnel operate this equipment during normal duties.
Training	Not tracked by equipment	Personnel attended training during normal duties.
Transportation	Not tracked by equipment	Personnel operate this equipment during normal duties.
Maintenance	\$0	No maintenance required this year.
Storage	Not tracked by equipment	Personnel operate this equipment during normal duties. The equipment is stored as part of normal Department operations.
Upgrade	\$0	No upgrades made.
Other ongoing costs	\$0	Maintenance and repairs as needed. No other known ongoing costs associated with this equipment.
Funding source for next year		Sheriff's Department Funding
<u>Total Annual Cost</u>	\$0	

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17.9 – Command and Control Vehicles

Category	Cost	Notes
Acquisition	\$0	Equipment purchased in prior years.
Personnel	Not tracked by equipment	Personnel operate this equipment during normal duties.
Training	Not tracked by equipment	Personnel attended training during normal duties.
Transportation	Not tracked by equipment	Personnel operate this equipment during normal duties.
Maintenance	\$43,539	Includes, labor, parts, equipment, and fuel.
Storage	Not tracked by equipment	Personnel operate this equipment during normal duties. The equipment is stored as part of normal Department operations.
Upgrade	\$0	No upgrades made.
Other ongoing costs	\$0	Maintenance, repairs, and fuel as needed. No other known ongoing costs associated with this equipment.
Funding source for next year		Sheriff's Department Funding
<u>Total Annual Cost</u>	\$43,539	

18.0 Future Military Equipment purchases

18.1 - Unmanned Aerial System (UAS)

The Sheriff's Department intends to purchase additional UAS's in the future. These purchases will be made in part, on the needs of the Department, availability of funding, needs to replace aging or damaged equipment and advances in technology.

18.2 – Interior Drone/Surveillance Robots

The Sheriff's Department intends to purchase interior drones in the future. These purchases will be made in part, on the needs of the Department, availability of funding, needs to replace aging or damaged equipment and advances in technology.

The Sheriff's Department intends to purchase one legged robot in the future. This purchase will be made through the use of the Urban Areas Security Initiative grant.

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14.3 – Bomb Squad Robots

The Sheriff's Department intends to purchase additional Bomb Squad Robot in the future. These purchases will be made through the use of the Urban Areas Security Initiative grant and/or Sheriff's Department funding.

18.4 – Armored Personnel Carriers/Multipurpose Wheeled Vehicles

The Sheriff's Department intends to purchase one armored personnel carrier in the in the future. This purchase will be made through the use of the Urban Areas Security Initiative grant.

18.5 – Tracked Armored Vehicle

The Sheriff's Department intends to purchase one Tracked Armored Vehicle in the future. This purchase will be made through the use of the Urban Areas Security Initiative grant.

18.6 – Firearms/Ammunition of .50 Caliber or Greater

The Sheriff's Department has not identified a set quantity of firearms/ammunition of .50 caliber or greater for the following year. These purchases will be made in part, on the needs of the Department, availability of funding, needs to replace aging or damaged equipment.

18.7 – Specialized Firearms/Ammunition Less Than .50 Caliber

The Sheriff's Department has not identified a set quantity of specialized firearms/ammunition less than .50 caliber for the following year. These purchases will be made in part, on the needs of the Department, availability of funding, needs to replace aging or damaged equipment.

18.8 – Explosive Breaching Rounds and Explosive Breaching Apparatus

The Sheriff's Department has not identified a set quantity of explosive breaching rounds or explosive breaching apparatuses for the following year. These purchases will be made in part, on the needs of the Department, availability of funding, needs to replace aging or damaged equipment. These are considered consumable items and will need to be replaced as they are used throughout the year.

18.9 - Chemical Agent, Pepper Spray, Oleoresin filled projectiles (Pepper Balls), Specialty Less Lethal Munitions, Flashbang grenades

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The Sheriff's Department has not identified a set quantity of chemical agents, pepper spray, oleoresin filled projectiles (Pepper Balls) specialty less lethal munitions or flashbang grenades for the following year. These purchases will be made in part, on the needs of the Department, availability of funding, needs to replace aging or damaged equipment. These are considered consumable items and will need to be replaced as they are used throughout the year.

18.10 - 40mm launchers, Less Lethal Bean Bag shotgun and munitions

The Sheriff's Department has not identified a set quantity of chemical agents, pepper spray, oleoresin filled projectiles (Pepper Balls) specialty less lethal munitions or flashbang grenades the following year. These purchases will be made in part, on the needs of the Department, availability of funding, needs to replace aging or damaged equipment. These are considered consumable items and will need to be replaced as they are used throughout the year.

18.11 – Long Range Acoustic Device (LRAD)

The Sheriff's Department has not identified a set quantity of LRAD's for the following year. These purchases will be made in part, on the needs of the Department, availability of funding, needs to replace aging or damaged equipment and advances in technology.

18.12 – Command and Control Vehicles

The Sheriff's Department intends to purchase one command and control vehicle in the future. This purchase will be made through the use of the Urban Areas Security Initiative grant.

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Glossary of Acronyms

CA POST – California Peace Officer Standards and Training

CSB – Court Services Bureau

DSB – Detention Services Bureau

HDSA – Honorary Deputy Sheriff's Association

LESB – Law Enforcement Services Bureau

SED – Special Enforcement Detail

UAS – Unmanned aerial system

UASI – Urban Areas Security Initiative

WTU – Weapons Training Unit