

Proposed Inventory Item 13 (Additions/Changes Highlighted)

1. **UAS (Unmanned Aircraft Systems)** Drones are utilized by department personnel as a means to search for missing persons more expeditiously and provide information during critical incidents as prescribed in policy 611.

a. Description, quantity, capabilities, and purchase cost:

i. DJI Matrice 30T Drone with Thermal Camera, cost: \$15,495/each, quantity: 2. The DJI Matrice 30T drone is a medium-sized UAS weighing approximately 3,770 grams. Capable of recording video and audio with approximately 41 minutes of flight time.

ii. Loudspeaker Spotlight 2-in-1 Payload, cost: \$1,750.00/each, quantity: 2. The DJI M30 drone loudspeaker and spotlight all in one payload is powered by DJI Onboard SDK. It features a fluid design to reduce wind resistance. It packs in high performance in its small size (only 270g) with lighting distance up to 100 meters and effective sound distance up to 200 meters.

iii. DJI Avata 2 Drones, including lights and additional controllers, cost: \$2,000 each, quantity: 2. The DJI Avata 2 is a small-sized UAS weighing approximately 377 grams and is appropriate for interior use. It has a maximum flight time of 23 minutes and supports fast charging. DJI Avata 2 drones has a maximum range of 10 kilometers and capture 4K video resolution.

iv. DJI Mini Pro (DJI RC2), cost: \$1,300, quantity: 1. The DJI Mini Pro would be utilized as training drone as it uses the same software and controller functions as our larger exterior drones. It is a small-sized UAS weighing 420 grams and supports a flight time of 34 minutes. DJI Mini Pro drones can be used indoors or outdoors, have omnidirectional obstacle avoidance, and capture 4K video.

b. Purpose: To be deployed when its view would assist officers or incident commanders with the following situations, which include but are not limited to:

- 1) Mass casualty incidents (e.g. large structure fires with numerous casualties, mass shootings involving multiple deaths or injuries);
- 2) Disaster response and damage assessment;
- 3) Missing or lost persons;
- 4) Hazardous material releases;
- 5) Identifying, locating and apprehending non-compliant, threatening or combative persons who pose a threat of injury or death to themselves, others or officers;

- 6) Suspected explosive devices;
- 7) Video/photographic documentation of crime scenes or collision locations;
- 8) Reconnaissance of incident locations that are inaccessible for fire apparatus;
- 9) Response to fires or post-fire investigations;
- 10) Sideshow events where many vehicles and reckless driving is present;
- 11) Rescue operations;
- 12) Conduct inspections of the City's utility infrastructure (e.g. electric, fiber, water, sewer, etc.) to detect leaks or stressed assets.
- 13) Training flights as required to meet FAA and Department certification standards;
- 14) Hazardous situations which present a high risk to officer and/or public safety, to include:
  - a. Armed suicidal persons;
  - b. Hostage situations;
  - c. Barricaded suspects;
- 15) Arrest of armed and/or dangerous persons
- 16) Locating suspect(s) who have fled from lawful detention
- 17) Locating suspects attempting to conceal themselves to avoid arrest.
- 18) Service of high risk search and arrest warrants involving armed and/or dangerous persons.
- 19) UAS product demos for the public at community events for educational and informational purposes
- 20) Other unforeseen exigent circumstances.
  - c. Authorized Uses: All use shall be in accordance with local, state, and federal law. Additionally, use of UAS is subject to the guidelines and requirements of LAPD Policy 611. Only assigned operators who have completed the required training shall be permitted to operate UAS during approved missions
  - d. Lifespan:
    - i. Expected life of UAS are approximately three to five years. Lifespan varies on operational usage and wear
    - ii. Expected life of the loudspeaker spotlight 2-in-1 payload is approximately three to five years. Lifespan varies on operational usage and wear.

- e. Fiscal Impact: Annual maintenance and battery replacement are approximately \$1500 per year for the DJI Matrice UAS. Batteries for the DJI Mini Pro and Avata 2 are approximately \$250 each.
- f. Training: All Department UAS operators are licensed by the Federal Aviation Administration for UAS operation. In addition, each operator must attend an online UAS pilot course and attend department trainings.
- g. Legal and Procedural Rules: Use of the UAS are subject to the requirements of Policy 611 (Unmanned Aerial Systems Operations). It is the policy of the Los Altos Police Department to utilize the UAS only for official law enforcement purposes, in accordance with all requirements under State and Federal law, including those outlined in Policy 611.