

## UAS (Drone) Inventory Description/Purpose/Usage

**DJI Matrice 30T Drone with Thermal Camera:** 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 200 meters.

(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 and/or are attempting to conceal themselves to avoid arrest.**

17. Service of high risk search and arrest warrants involving armed and/or dangerous persons.

~~18. \*For Departmental approved community events and demonstrations in order to enhance training and improve community awareness.~~ Exhibitions for the public at community events

~~19.~~18. Other unforeseen exigent circumstances.

(c) Authorized Use: 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 the DJI 30T during approved missions. May also be used for Department-approved community events and demonstrations in order to enhance training and improve community awareness.

(d) 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.

(e) Lifespan:

i. Expected life of the DJI Matrice 30T UAS is 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.

(f) Fiscal Impact: Annual maintenance and battery replacement are approximately \$1500 per year.

(g) Legal and Procedural Rules: Use of the DJI Matrice 30T and loudspeaker spotlight 2-in-1 payload 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.