

Attachment A - Military Equipment Inventory List

Unmanned, remotely piloted, powered aerial or ground vehicles:

1. DJI Matrice 30 T

a. Quantity

1

b. Capabilities

Fly, hover, broadcast video, record video, photography, FLIR

c. Expected Lifespan

Approximately 4 years

d. Manufacturer Description

“The DJI MATRICE 30 Series is a powerful industrial drone platform with a multi-redundancy flight controller system, 6 directional sensing and positioning system, precise three-axis gimbal, high-performance multi-camera load, and a new FPV camera with night vision. The DJI Pilot 2 app can be used to observe the real-time view from the cameras and take photos and videos. The aircraft boasts a flight time of up to 41 minutes thanks to the advanced power management system along with the dual batteries that ensure power supply and enhance flight safety. Its airframe design gives it an IP55 rating, in accordance with the global IEC 60529 standard, which effectively guarantees flight in all weather. The mechanical design, along with mounted folding arms and propellers, makes it easy to transport and store. The arms can be locked directly after unfolding, which can reduce the time needed to prepare for flight. The aircraft is also equipped with a PSDK port so users can broaden its applications. The built-in DJI AirSense system detects nearby aircraft in the surrounding airspace, providing alerts in the DJI Pilot 2 app to ensure safety. Safety during takeoff, flight, and landing are improved with the safety beacons that help to identify the aircraft during flight and the auxiliary lights allow the vision positioning system to achieve an even greater performance at night or when there is low light. The built-in RTK provides more accurate navigational data for positioning to meet accurate operation requirements and ensure safety.”

e. Purpose

UAS may be utilized in law enforcement activities to enhance the department’s mission of protecting lives and property, crime prevention, and enhancing public safety by providing aerial support and assistance to personnel.

Authorized Users

Only assigned operators who have completed the required training shall be permitted to operate the Unmanned Aircraft Systems (UAS).

f. Fiscal Impact:

a. Initial Cost

\$14,700

b. Annual Maintenance Cost

Approximately \$1,500

g. Training

All Department UAS operators are licensed by the Federal Aviation Administration for UAS operation.

h. Legal and Procedural Rules

Use is established under FAA Regulation 14 CFR Part 107, Certificate of Waiver or Authorization (COA), and the City of Lancaster UAS policy. It is the policy of the City of Lancaster to utilize UAS in a manner that respects the reasonable expectation of privacy, pursuant to state and federal law.



2. DJI Mavic 3 Enterprise

a. Quantity

1

b. Capabilities

Fly, hover, broadcast video, record video, photography,

c. Expected Lifespan

Approximately 4 years

d. Manufacturer Description

"The DJI Mavic 3 Enterprise features a powerful camera system that includes a 20-megapixel sensor capable of shooting 4K video at up to 60 frames per

second. Additionally, the drone is equipped with a long-range transmission system, which allows it to transmit real-time video and data over distances of up to 15 kilometers. In addition to its advanced imaging capabilities, the DJI Mavic 3 Enterprise also includes a range of safety features that make it ideal for commercial and industrial use. These features include obstacle avoidance sensors, which help the drone to avoid collisions with obstacles such as trees, buildings, or other drones. It also features a GPS tracking system, which allows the drone to maintain its position and fly in a pre-programmed path, which is particularly useful for mapping and surveying tasks. The drone also includes a range of safety features that help prevent accidents, such as automatic return-to-home and low-battery warnings.”

e. Purpose

UAS may be utilized in law enforcement activities to enhance the department’s mission of protecting lives and property, crime prevention, and enhancing public safety by providing aerial support and assistance to personnel.

f. Authorized Use

Only assigned operators who have completed the required training shall be permitted to operate the Unmanned Aircraft Systems (UAS).

g. Fiscal Impact:

c. Initial Cost

\$3,628

d. Annual Maintenance Cost

Approximately \$500

h. Training

All Department UAS operators are licensed by the Federal Aviation Administration for UAS operation.

i. Legal and Procedural Rules

Use is established under FAA Regulation 14 CFR Part 107, Certificate of Waiver or Authorization (COA), and the City of Lancaster UAS policy. It is the policy of the City of Lancaster to utilize UAS in a manner that respects the reasonable expectation of privacy, pursuant to state and federal law.

