

INTRADEPARTMENTAL CORRESPONDENCE

August 28, 2019
1.10

TO: The Honorable Board of Police Commissioners

FROM: Chief of Police

SUBJECT: APPROVAL OF MONETARY DONATION

RECOMMENDED ACTION

1. That the Board of Police Commissioners APPROVE and ACCEPT the monetary donation in the amount of \$6,545.00 for the Metropolitan Division, Special Weapons and Tactics team.

<u>DONOR INFORMATION:</u>	<u>ITEMS:</u>	<u>VALUE:</u>
William H. Parker, (#174-19) Los Angeles Police Foundation Sterling Fields (323) 276-2350 1880 N. Academy Drive Los Angeles, California 90012	Monetary	\$6,645.00

DISCUSSION

The donation is for the benefit of the Metropolitan Division, Special Weapons and Tactics (SWAT) team. Upon approval, the funds will be used to pay for equipment to support the Department's Small Unmanned Aerial System (sUAS) pilot program. The equipment will enable the sUAS to constantly and inutility detect objects and obstacles within a confined space. No expressed or implied commitments or promises were made to the donor or representatives of the donor. The donor will not receive any preferential treatment, endorsement or recommendation and the donor is not allowed the use of any Los Angeles Police Department (Department) patents.

Administrative Services Bureau has reviewed the donation and determined that it has been submitted in accordance with Section 5.467 et seq. of the Los Angeles Administrative Code, which provides for the receipt and acceptance of donations to the Department.

If you have any questions, please contact Lieutenant Chester McMillion, Metropolitan Division, at (213) 352-4700.

Respectfully,

MICHEL R. MOORE
Chief of Police

OFFICIAL CORRESPONDENCE REVIEW FORM

174-19

INITIATED BY: (NAME, BUREAU OR DIVISION, ETC.) CAPT. JONATHAN L. TIPPET Commanding Officer, Metropolitan Division	DATE: July 10, 2019
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STAFF OFFICER ASSIGNED: (NAME, BUREAU OR DIVISION, PHONE EXTENSION, ETC.)
LIEUTENANT RUBEN LOPEZ, SWAT OIC, METROPOLITAN DIVISION

SUBJECT:
REQUEST TO ACCEPT A DONATION - METROPOLITAN DIVISION SWAT TEAM (MAVIC)

Routing Order:	Reviewer Initials:	DIVISION/BUREAU/OFFICE	Routing Order:	Reviewer Initials:	DIVISION /BUREAU/OFFICE
		OFFICE OF OPERATIONS	1	<i>[Signature]</i>	METROPOLITAN DIVISION
		OPERATIONS-CENTRAL BUREAU			DIVISION
		OPERATIONS-SOUTH BUREAU			DIVISION
		OPERATIONS-WEST BUREAU	2	<i>[Signature]</i>	COMMANDING OFFICER, SPECIAL OPERATIONS GROUP
		OPERATIONS-VALLEY BUREAU	3	<i>[Signature]</i>	COMMANDING OFFICER, COUNTER-TERRORISM AND SPECIAL OPERATIONS BUREAU
		DIRECTOR, OFFICE OF CONSTITUTIONAL POLICING AND POLICY			DIRECTOR, OFFICE OF SPECIAL OPERATIONS
		DIRECTOR, OFFICE OF ADMINISTRATIVE SERVICES	5		OFFICE OF THE CHIEF OF POLICE - Administrative Section
4	<i>[Signature]</i>	COMMANDING OFFICER, ADMINISTRATIVE SERVICES BUREAU			CHIEF OF STAFF
		POST UNIT, TRAINING DIVISION, ROOM 625 PAB	6		CHIEF OF POLICE
		FISCAL OPERATIONS DIVISION (GRANTS SECTION)			COMMANDING OFFICER, COMMUNITY POLICING AND POLICY GROUP
		MOTOR TRANSPORT DIVISION			

REFERENCE NUMBERS:

OCOP #:	OSO #:	CTSOB #:	DIVISION #:
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**Counter-Terrorism and
Special Operations Bureau**

RECEIVED #917
JUL 17 2019
**ADMINISTRATIVE
SERVICES BUREAU**

JUL 16 2019
RECEIVED

**Special Operations
Group**

JUL 15 2019
RECEIVED

[Signature]

INTRADEPARTMENTAL CORRESPONDENCE

July 10, 2019
16.3

TO: Commanding Officer, Administrative Services Bureau

FROM: Commanding Officer, Metropolitan Division

SUBJECT: REQUEST TO ACCEPT DONATION

It is requested that Administrative Services Bureau (ASB) approve and forward correspondence to the Honorable Board of Police Commissioners to accept a SOLICITED donation from the William H. Parker Los Angeles Police Foundation. This donation, in the amount of \$6,645.00, would facilitate the acquisition of critical equipment for the Department's Special Weapons and Tactics (SWAT) team. The William H. Parker Los Angeles Police Foundation has agreed to purchase the following commercially available items:

- 1 Mavic Enterprise Dual
- 1 Mavic Enterprise Fly More Kit
- 1 Matrice 210 Enhanced Optical Zoom Camera
- 1 Matrice 210 Spare Batteries

The Mavic Enterprise Dual and accessories are all manufactured Da-Jiang Innovations (DJI), which is the approved manufacturer of the Department's Small Unmanned Aerial System (sUAS) pilot program that began in 2018. The Mavic Enterprise Dual is based on the same platform as the currently-approved Spark, but with enhanced technology that was not available when the pilot program began. It is believed that the Mavic Enterprise Dual will outperform the Spark when deployed indoors based on the advanced pilot system, which enables the sUAS to constantly and intuitively detect objects or obstacles within confined spaces. It also has an extended flight time and improved sensors to operate in low to no light conditions. The Mavic Enterprise Dual comes with a standard one-year limited warranty from DJI. There is not maintenance or administrative costs associated with this donation.

DONOR INFORMATION:

William H. Parker Los Angeles Police Foundation
1880 N. Academy Drive
Los Angeles CA, 90012
(323) 276-2350
Point of Contact – Sterling Fields

All possible conflicts of interest have been thoroughly researched. No expressed or implied commitment or promise was made to the donor or representatives; the donor will not receive any preferential treatment, endorsement, or recommendation. If you have any further questions, please have a member of your staff contact Lieutenant Chester McMillion, Metropolitan Division, at (213) 352-4700.

APPROVED:



JONATHAN L. TIPPET, Captain
Commanding Officer
Metropolitan Division



HORACE E. FRANK, Deputy Chief
Commanding Officer
Counter-Terrorism and Special Operations Bureau

[Consumer](#) [Professional](#) [Enterprise](#) [Components](#) [Explore](#) [Support](#) [Store](#)

MAVIC 2 ENTERPRISE

[SPEC](#) [DOWNLOADS](#) [FAQ](#) [VIDEO](#) [ENTERPRISE SHIELD](#)

Built to Empower. Destined to Serve.



Designed to empower a new generation of workers, the Mavic 2 Enterprise is the ultimate expression of a tool that delivers beyond expectation to meet current workplace challenges and future demands.



Zoom Camera

Dual Camera

OcuSync 2.0

Modular Accessories

Password Protection

DJI

MAVIC 2 ENTERPRISE SPECS

Home / Products / Mavic 2 Enterprise / Specs

AIRCRAFT

Takeoff Weight(Without Accessories)	Zoom Edition:905 g Dual Edition:899 g
Max Takeoff Weight	1100 g
Dimensions(L×W×H)	Folded : 214×91×84 mm Unfolded: 322×242×84 mm Unfolded+Spotlight : 322×242×114 mm Unfolded+Beacon : 322×242×101 mm Unfolded+Speaker : 322×242×140 mm
Diagonal Length	354 mm
Max Ascent Speed	5 m/s (S-mode ⁽¹⁾) 4 m/s (P-mode) 4 m/s (S-mode with accessories ⁽¹⁾) 4 m/s (P-mode with accessories)
Max Descent Speed	3 m/s (S-mode ⁽¹⁾) 3 m/s (P-mode)
Max Speed (near sea level, no wind)	72 kph (S-mode , without wind) 50 kph (P-mode , without wind)
Max Service Ceiling Above Sea Level	6000 m
Max Flight Time (no wind)	31 min (at a consistent speed of 25 kph)
Max Hovering Time (no wind)	29 min 27 min (with beacon turned on) 28 min (with beacon turned off) 22 min (with spotlight turned on) 26 min (with spotlight turned off) 25 min (with speaker turned on) 26 min (with speaker turned off)
Max Wind Speed Resistance	29-38 kph
Max Tilt Angle	35° (S-mode, with remote controller) 25° (P-mode)
Max Angular Velocity	200°/s (S-Mode) 100°/s (P-Mode) 200°/s (S-Mode) 100°/s (P-Mode)
Operating Temperature Range	-10°C to 40°C
GNSS	GPS+GLONASS
Hovering Accuracy Range	Vertical: ±0.1 m (with Vision Positioning) ±0.5 m (with GPS Positioning) Horizontal: ±0.3m (with Vision Positioning) ±1.5 m (with GPS Positioning)
Operating Frequency	2.400 - 2.4835 GHz 5.725 - 5.850 GHz
Transmission Power (EIRP)	2.400 - 2.4835 GHz FCC : ≤26 dBm CE : ≤20 dBm

M2ED THERMAL CAMERA

Sensor	Uncooled VOx Microbolometer
Lens	HFOV: 57° Aperture: f/1.1
Sensor Resolution	160×120
Pixel Pitch	12 μm
Spectral Band	8-14 μm
Image Size [2]	640×480 (4:3) 640×360 (16:9)
Still Photography Modes	Single shot Burst shooting: 3/5/7 frames
Video Recording Modes	640×360 @8.7fps
Accuracy	High Gain: Max ±5% (typical) Low Gain: Max ±10% (typical)
Scene Range	High Gain: -10° to +140°C Low Gain: -10° to +400°C
Photo	JPEG
Video	MP4, MOV (MPEG-4 AVC/H.264)

M2ED VISUAL CAMERA

Sensor	1/2.3" CMOS; Effective pixels: 12M
Lens	FOV: approx. 85° 35 mm format equivalent: 24 mm Aperture: f/2.8 Focus: 0.5 m to ∞
ISO Range	Video: 100-3200 (auto) Photo: 100-1600 (auto)
Max Image Size	4056×3040 (4:3) ; 4056×2280 (16:9)
Still Photography Modes	Single shot Burst shooting: 3/5/7 frames Interval (2/3/5/7/10/15/20/30/60 s)
Video Recording Modes	4K Ultra HD : 3840×2160 30p 2.7K : 2688×1512 30p FHD : 1920×1080 30p
Max Video Bitrate	100 Mbps
Photo	JPEG
Video Format	MP4 , MOV (MPEG-4 AVC/H.264)

	SRRC : ≤20 dBm MIC : ≤20 dBm 5.725-5.850 GHz FCC : ≤26 dBm CE : ≤14 dBm SRRC : ≤26 dBm		
Internal Storage	24 GB		
GIMBAL			
Mechanical Range	Tilt: -135 ~ +45° Pan: -100 ~ +100°		
Controllable Range	Tilt: -90 ~ +30° Pan: -75 ~ +75°		
Stabilization	3-axis (tilt, roll, pan)		
Max Control Speed (tilt)	120°/s		
Angular Vibration Range	±0.005°		
SENSING SYSTEM			
Sensing System	Omnidirectional Obstacle Sensing [3]		
Forward	Precision Measurement Range: 0.5 - 20 m Detectable Range: 20 - 40 m Effective Sensing Speed: ≤ 14m/s FOV: Horizontal: 40°, Vertical: 70°		
Backward	Precision Measurement Range: 0.5 - 16 m Detectable Range: 16 - 32 m Effective Sensing Speed: ≤ 12m/s FOV: Horizontal: 60°, Vertical: 77°		
Upward	Precision Measurement Range: 0.1 - 8 m		
Downward	Precision Measurement Range: 0.5 - 11 m Detectable Range: 11 - 22 m		
Sides	Precision Measurement Range: 0.5 - 10 m Effective Sensing Speed: ≤ 8m/s FOV: Horizontal: 80°, Vertical: 65°		
Operating Environment	Forward, Backward and Sides: Surface with clear pattern and adequate lighting (lux > 15) Upward: Detects diffuse reflective surfaces (>20%) (walls, trees, people, etc.) Downward: Surface with clear pattern and adequate lighting (lux > 15) Detects diffuse reflective surfaces (>20%) (walls, trees, people, etc.)		
REMOTE CONTROLLER			
Operating Frequency	2.400 - 2.483 GHz; 5.725 - 5.850 GHz		
Max Transmission Distance (Unobstructed, free of Interference)	2.400 - 2.483 GHz; 5.725 - 5.850 GHz FCC: 8000 m CE: 5000 m SRRC: 5000 m Miic: 5000 m		
Operating Temperature Range	0°C to 40°C		
Transmitter Power(EIRP)	2.4 - 2.4835 GHz FCC : ≤26 dBm ; CE : ≤20 dBm ; SRRC : ≤20 dBm MIC : ≤20 dBm 5.725 - 5.850 GHz FCC : ≤26 dBm ; CE : ≤14 dBm ; SRRC : ≤26 dBm		
Battery	3950mAh		
Charging Time	2 hours 15 min		
Operating Current/Voltage	1800mA ~ 3.83V		
Mobile Device Holder	Thickness Supported: 6.5-8.5 mm , Max length: 160 mm		
RC Size	Folded : 145×80×48 mm (L×W×H) Unfolded: 190×115×100 mm (L×W×H)		
Supported USB port types	Lightning, Micro USB (Type-B), USB Type-C™		
		M2E CAMERA	
		Sensor	1/2.3" CMOS ; Effective pixels: 12 Megapixels
		Lens	FOV : 82.6°(24 mm) ; 47.8°(48 mm) Format equivalent : 24-48 mm Aperture : f/2.8(24 mm)-f/3.8(48 mm) Auto focus at : 0.5 - ∞
		ISO Range	Video : 100-3200 Photo : 100-1600(Auto) 100-3200(Manual)
		Shutter Speed	8-1/8000s
		Still Image Size	4000×3000
		Still Photography Modes	Single shot Burst shooting: 3/5/7 frames Auto Exposure Bracketing (AEB): 3/5 bracketed EV Bias Interval (JPEG: 2/3/5/7/10/15/20/30/60s RAW: 5/7/10/15/20/30/60s)
		Video Resolution	4K: 3840×2160 24/25/30p 2.7K: 2720×1530 24/25/30/48/50/60p FHD: 1920×1080 24/25/30/48/50/60/120p
		Max Video Bitrate	100 Mbps
		Color Mode	D-Cinelike
		Supported File System	FAT32(≤ 32 GB) ; exFAT(> 32 GB)
		Photo Format	JPEG , DNG (RAW)
		Video Format	MP4 / MOV (MPEG-4 AVC/H.264)
		CHARGER	
		Input	100-240V , 50-60Hz , 1.8A
		Output	Main: 17.6V ~ 3.41A or 17.0V ~ 3.53 USB: 5V ~ 2A
		Voltage	17.6±0.1V
		Rated Power	60W
		INTELLIGENT FLIGHT BATTERY	
		Capacity	3850 mAh
		Voltage	15.4V
		Max Charging Voltage	17.6V
		Battery Type	LiPo
		Energy	59.29 Wh
		Net Weight	297 g
		Charging Temperature	5°C - 40°C
		Operating Temperature Range	-10°C to 40°C
		Heating Methods	Manual Heating ; Auto Heating
		Heating Temperature	-20°C to 6°C
		Heating duration:	500s (Max)
		Heating Power	55W (Max)
		Charging Time	90 min
		Max Charging Power	80W
		APP / LIVE VIEW	
		Video Transmission System	OcuSync 2.0
		Mobile App	DJI PILOT

M2E SPOTLIGHT

Dimensions	68x60x41 mm
Port Type	USB Micro-B
Operating Range	30 m
Power	Max 26W
Illuminance	FOV17°, Max : 11lux @ 30m Straight

Live View Quality	Remote Controller: 720p@30fps / 1080p@30fps
Max Live View Bitrate	40 Mbps
Latency	120 - 130 ms
Required Operating Systems	Ios 10.0 or later Android 5.0 or later

M2E BEACON

Dimensions	68x40x27.8 mm
Port Type	USB Micro-B
Power	Avg. 1.6W
Controllable Range	5000 m
Light intensity	Min Angle : 55 cd ; Light intensity : 157 cd

SUPPORTED SD CARDS

Supported SD Cards	Micro SD™ Supporting Micro SD with capacity up to 128 G speed up to UHS-I Speed Grade 3
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M2E SPEAKER

Dimensions	68x55x65 mm
Port Type	USB Micro-B
Power	Max 10W
Decibel	100 db @ 1 meter distance
Bitrate	16 kbps

FOOTNOTES

Footnotes	[1] Remote controller required.
	[2] Due to real-time digital enhancements, the photo and video size of the thermal data is larger than the sensor's native resolution.
	[3] Omnidirectional Obstacle Sensing includes left/right, up/down, and forward/backward obstacle sensing. Sensing for left/right directions is only available in ActiveTrack or Tripod Mode. Omnidirectional Obstacle Sensing does not fully cover the circumference of a 360-degree arc. And left and right obstacle sensing system only works in specific modes and environments. DJI warranty does not cover any loss caused by crashing when flying left or right, even when ActiveTrack or Tripod mode is activated. Please be aware of your surroundings and App notifications when operating the Mavic 2 to ensure safety. These specs have been determined through tests conducted with the latest firmware. Firmware updates can enhance performance, so updating to the latest firmware is highly recommended."
	[4] These specs have been determined through tests conducted with the latest firmware. Firmware updates can enhance performance, so updating to the latest firmware is highly recommended."

MAVIC 2 ENTERPRISE VIDEOS

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