

## MAXIMUM PERMISSIBLE EXPOSURE EVALUATION REPORT

**Applicant:** Autel Robotics Co., Ltd.

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**Product Name:** EVO Lite, EVO Lite+, EVO Lite 6K Enterprise, EVO Lite 640T Enterprise

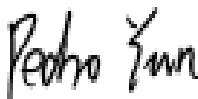
**FCC ID:** 2AGNTMDXM2409B

**Standard(s):** 47 CFR §1.1310, 47 CFR §2.1091,  
47 CFR §15.247(i), 47 CFR §15.407(f)

**Report Number:** 2402A108190E-RF-00F

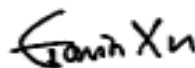
**Report Date:** 2025/1/25

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).



**Reviewed By:** Pedro Yun

**Title:** Project Engineer



**Approved By:** Gavin Xu

**Title:** RF Supervisor

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## GENERAL INFORMATION

### General Description Of Equipment under Test

|                             |                                                                       |
|-----------------------------|-----------------------------------------------------------------------|
| <b>EUT Name:</b>            | EVO Lite, EVO Lite+, EVO Lite 6K Enterprise, EVO Lite 640T Enterprise |
| <b>EUT Model:</b>           | MDXM                                                                  |
| <b>Multiple Model:</b>      | MDXM2                                                                 |
| <b>Rated Input Voltage:</b> | DC 11.13V from Battery                                                |
| <b>EUT Received Date:</b>   | 2024/12/4                                                             |
| <b>EUT Received Status:</b> | Good                                                                  |

Note:

The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.

The device can install difference Gimbal camera, test was only performed with Gimbal camera 1#(Camera for EVO Lite+ and EVO Lite 6K Enterprise).

## RF EXPOSURE EVALUATION (MPE)

### RF Exposure Evaluation

#### Applicable Standard

According to subpart 15.247(i), 15.407(f) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

| (B) Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                          |
|---------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| Frequency Range (MHz)                                   | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minutes) |
| 0.3–1.34                                                | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34–30                                                 | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 30                       |
| 30–300                                                  | 27.5                          | 0.073                         | 0.2                                 | 30                       |
| 300–1500                                                | /                             | /                             | f/1500                              | 30                       |
| 1500–100,000                                            | /                             | /                             | 1.0                                 | 30                       |

f = frequency in MHz; \* = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

#### Calculation formula

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$  = power density (in appropriate units, e.g. mW/cm<sup>2</sup>);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

**Calculated Data:**

| Operation Modes | Frequency (MHz) | Antenna Gain |           | Conducted output power including Tune-up Tolerance <sup>▲</sup> |        | Evaluation Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | MPE Limit (mW/cm <sup>2</sup> ) |
|-----------------|-----------------|--------------|-----------|-----------------------------------------------------------------|--------|--------------------------|-------------------------------------|---------------------------------|
|                 |                 | (dBi)        | (numeric) | (dBm)                                                           | (mW)   |                          |                                     |                                 |
| SRD 2.4G        | 2403.5-2475.5   | 1.5          | 1.41      | 26.5                                                            | 446.68 | 20.00                    | 0.126                               | 1.0                             |
| SRD 5.2G        | 5154-5246       | 3.6          | 2.29      | 16.0                                                            | 39.81  | 20.00                    | 0.018                               | 1.0                             |
| SRD 5.8G        | 5728-5847       | 4.9          | 3.09      | 27.5                                                            | 562.34 | 20.00                    | 0.346                               | 1.0                             |
| WiFi 2.4G       | 2412-2462       | 2.2          | 1.66      | 24.0                                                            | 251.19 | 20.00                    | 0.083                               | 1.0                             |
| WiFi 5.2G       | 5180-5240       | -0.2         | 0.95      | 15.0                                                            | 31.62  | 20.00                    | 0.006                               | 1.0                             |
| WiFi 5.8G       | 5745-5825       | 4.6          | 2.88      | 13.0                                                            | 19.95  | 20.00                    | 0.011                               | 1.0                             |

Note:

The Conducted output power including Tune-up Tolerance provided by manufacturer.

SRD and WiFi can transmit simultaneously.

$$\sum_i \frac{S_i}{S_{Limit,i}}$$

$$= S_{SRD}/S_{limit-SRD} + S_{Wifi}/S_{limit-Wifi}$$

$$= 0.346/1.0 + 0.083/1.0$$

$$= 0.43$$

$$< 1.0$$

**Result:** The device meet FCC MPE at 20 cm distance

## **EXHIBIT A - EUT PHOTOGRAPHS**

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Please refer to the attachment 2402A108190E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402A108190E-RF-INP EUT INTERNAL PHOTOGRAPHS.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***