



MAXIMUM PERMISSIBLE EXPOSURE EVALUATION REPORT

Applicant: SUZHOU ZWO CO., LTD.

Address: Building 2, Peninsula Life Plaza, Moon bay road 6 SuZhou Industrial Park, JiangSu, China

Product Name: Wireless Smart Camera

FCC ID: 2A7R3-ASICA90

Standard(s): 47 CFR §1.1310, 47 CFR §2.1091, 47 CFR §15.247(i), 47 CFR §15.407(f) Report Number: 2402U80538E-RF-00E Report Date: 2024/9/14

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

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DOCUMENT REVISION HISTORY

Revision Number Report Number		Description of Revision	Date of Revision	
1.0 2402U80538E-RF-00E		Original Report	2024/9/14	

Report Template Version: FCC §2.1091-V1.0

1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

Trade Name:	ZWO
EUT Name:	Wireless Smart Camera
EUT Model:	ASI2600MC Air
Rated Input Voltage:	DC 12V from Adapter or 11V~14V from lithium battery
EUT Received Date:	2024/6/12
EUT Received Status:	Good

2. RF EXPOSURE EVALUATION (MPE)

2.1 RF Exposure Evaluation

2.1.1 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 ²)	Averaging Time (minutes)		
0.3–1.34	614	1.63	*(100)	30		
1.34–30	824/f	2.19/f	*(180/f ²)	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.

2.1.2 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/cm²);

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;

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

2.1.3 Calculated Data:

Operation Modes	Frequency (MHz)	Ante	nna Gain	Conducted output power including Tune-up Tolerance		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wifi	2412-2462	4.75	2.99	22.5	177.83	20.00	0.106	1.0
5.2G Wifi	5150-5250	3.33	2.15	15.5	35.48	20.00	0.015	1.0
5.8G Wifi	5725-5850	3.72	2.36	12.0	15.85	20.00	0.007	1.0

Note:

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

2.4G Wifi and 5G Wifi can`t transmit simultaneously:

Result: Compliant. The device compliant Simultaneous transmission at 20cm distances.

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402U80538E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402U80538E-RF-INP EUT INTERNAL PHOTOGRAPHS.

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

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