



TEST REPORT

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Report Number : 2504Z39370E-RF
FCC ID: ZDEPD8

Test Standard (s)

47 CFR §2.1091

Sample Description

Product Type: Wireless IP Camera
Model No.: PD8, PA8, PW8, PS8
Trade Mark: FOSCAM
Date Received: 2025-11-27
Report Date: 2026-01-13

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

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Approved By:

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Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked.
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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504Z39370E-RF	Original Report	2026-01-13

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Wireless IP Camera
Tested Model	PD8
Multiple Model	PA8, PW8, PS8
Model Difference [#]	All of the models are electrically identical, but the difference among them is model name. Please refer to DOS letter. The applicant provided model "PD8" for testing.
Frequency Range	2.4G Wi-Fi: 2412-2462MHz 5G Wi-Fi: 5725-5850MHz 24G Radar: 24.00GHz-24.25GHz
Maximum Conducted Output Power	2.4G Wi-Fi: 21.66 dBm 5G Wi-Fi: 16.24 dBm
Maximum E-Field Strength (Peak)	24G Radar: 107.23dBuV/m@3m
Antenna Specification [#]	Internal Antenna: 2.4G Wi-Fi: 4.38 dBi 5G Wi-Fi: 2.51 dBi 24G Radar: 9 dBi (It is provided by the applicant.)
Voltage Range [#]	DC 12V from adapter
Sample Serial Number	3DHD-1(24G Radar), 3DHD-7(2.4G&5G Wi-Fi) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information [#]	Model: SAW30A-120-2000U Input: 100-240V~ 50/60Hz 0.8A Output: 12.0V ---2000mA
Note: The device comes with a DC cable (0.35m), a LAN cable (0.35 m), an AC/DC adapter which with a DC cable (1.45m) and a Network cable (1.0m) and it is not PoE function.	

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts C and Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC §2.1091 rules.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

RF EXPOSURE

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

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

Result

Calculated Formulary:

- Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = 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.

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 Result:

Radio	Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#] (dBi)	EIRP		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
				(dBm)	(mW)			
2.4G Wi-Fi	2412-2462	22.00	4.38	26.38	434.51	20	0.0865	1.0
5G Wi-Fi	5725-5850	16.50	2.51	19.01	79.61	20	0.0158	1.0
24G Radar	24000-24250	/	/	12.03	15.96	20	0.0032	1.0

Note 1: The tune-up power and antenna gain are declared by the applicant.

Note 2: EIRP= Tune up conducted power + Antenna Gain

Note 3: E(dBuV/m)=EIRP(dBm)-95.2 for distance 3m

Use the highest E-field strength(107.23 dBuV/m@3m) for the evaluation,

so the EIRP= 107.23 dBuV/m@3m-95.2=12.03 dBm

Note 4: The Wi-Fi and 24G Radar can transmission simultaneously.

Simultaneous transmitting consideration (worst case):

The ratio= 2.4G Wi-Fi/Limit + 24G Radar/Limit

= 0.0865/1.0 + 0.0032/1.0

= 0.0897

<1.0

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504Z39370E-RF EUT External Photos and Attachment No.2 2504Z39370E-RF EUT Internal Photos.

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